# Innovation x 175 years

# = UofT



University of Toronto National Report 2002

## President's Message

As Canada's leading research university, we intend to take our place among the world's top public research universities.

he University of Toronto marked a special anniversary this year...our 175th anniversary, in fact. The celebration has allowed us to look at both our history and our future. From both vantage points, it is extraordinary to see how deep the well of innovation and creativity is at U of T.

This year's *National Report* puts a human face on innovation. As Canada's leading research university, we intend to take our place among the world's top public research universities. We are unequivocal in our ambition, just as the individuals in this report are among the unequivocal world leaders in their disciplines.

Canada's leading research universities should emulate the world's best public research universities – University of London, ETH Zurich, University of Tokyo, University of Michigan, UC Berkeley and others. This is more than a matter of pride. Our goal is to ensure that Canada has several research universities of international stature. To do less would mean that we would fail to build on the strength of our leading faculty members and the immense potential of our talented students. We would fail to provide Canadians with the educational opportunities they deserve.

Many studies have demonstrated the vital place of research universities in knowledge-based economies. In Ontario and Canada, government and industry are collaborating with universities to provide not only an improved social and cultural environment, but also the technology and talent needed to compete in the global economy. Proper support for our leading research universities will ensure future prosperity for our citizens, and strong and diversified support is a hallmark of the world's best public research universities.

Leading universities also have faculty members who are committed to education and international leadership in scholarship and research. These individuals place equal value on teaching and research, combining research, scholarship and education in ways that shape the graduate and undergraduate experiences. Such universities attract highly talented students. There is nothing more exciting for a student than sitting in a classroom or lab with a professor whose work is changing the paradigm in his or her field. Nothing can replace the value of studying with people who are transforming knowledge.

At U of T, virtually all professors in the Faculty of Arts and Science, including our most eminent scholars, teach under-

graduates. More than 70 per cent of first-year classes are taught by tenured faculty, and our median first-year class size is 24. Moreover, our undergraduates can take special undergraduate courses that engage them in research with leading faculty.

The best public research universities recruit and retain diverse faculty, staff and students who meet the highest standards nationally and internationally. These top institutions assume responsibility for the graduate education of the next generation of teachers, researchers and leaders. Some 17 per cent of all anglophone professors at Canadian universities have a U of T degree. In support of professors as well as students, top universities set in place sufficient funding for libraries, laboratories and information technology.

These are among the standards against which U of T, as a top public university, measures itself. Public universities are the backbone of Canadian higher education, striving to provide the best in higher education to as large and diverse a segment of the population as possible. This mandate sets Canadian universities apart from many of the world's public universities, and from elite private U.S. universities. We provide an education competitive with the best universities, and we make it available to 10,000 new students every year.

U of T has an obligation to be inclusive in educating everyone, from our diverse community and beyond, who qualifies for admission. At the same time, our faculty must also be inclusive and representational while meeting the highest standards as teachers and scholars. To meet our responsibilities, the university must be accessible to all segments of society. To this end, we provide all qualified students with a financial aid structure enabling them to attend U of T with as small a financial burden as possible before and after graduation. Further, we guarantee that no U of T student will have to abandon his or her education because of financial need.

Canada deserves, and is capable of having, research universities that rank with the best in the world. Welcome to the University of Toronto – and the next 175 years of innovation.

Sincerely,

Robert J. Birguesu

Robert J. Birgeneau President



# Innovations in Global Competitiveness

"Laurier's prediction

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- Dean Roger Martin

would belong to

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#### Our Past

Harold Innis was a trail-blazer in analyzing and interpreting Canada's economic history. Innis, who joined the political economy department in 1920, wrote the first survey of Canada's economy, The Fur Trade in Canada (1930). The book examined the nation's first industries (fur, forestry and fishing) and their role in shaping political boundaries. A decade later, he furthered his "staple thesis" in another landmark text, The Cod Fisheries (1940), which illustrated Canada's historical connection to Europe.

Innis was concerned with Canada's place in the world and its cultural survival. In the face of such powerful empirebuilding states as Britain and the U.S., how does a smaller, colonial nation like Canada develop its own sense of nationhood? Later, his fascination with cultural imperialism led him to study mass media and its societal effects. In the process, he helped establish the field of communications theory, laying the groundwork for younger contemporaries including Marshall McLuhan.

lobal competitiveness – the ability of Canadian companies to compete successfully in the worldwide marketplace – is something Roger Martin, dean of U of T's Joseph L. Rotman School of Management, thinks about a lot. As he sees it,

"global competitiveness and innovation are intertwined. Unique products and processes underpin a high and rising standard of living. Canadian companies can succeed in a multitude of industries in the global marketplace, but not enough seek to compete by being innovative."

In 1991 Martin, along with Harvard Business School professor Michael Porter and the Monitor Group's (a global professional services firm) John Armstrong, published Canada at the Crossroads, an examination of the Canadian economy. Last year, Porter and Martin released Canadian Competitiveness: A Decade after the Crossroads. Their findings show Canada is lagging in the global competitiveness race. "In 1991," says Martin, "Canada was the third-richest country in

the world in GDP per capita, and had a dollar valued at 87 cents U.S. By the time we released our follow-up study, Canada was in fifth place and had a dollar valued at 65 cents U.S., representing a 23 per cent pay cut."

Martin thinks the decline took place because not enough of an effort was made by stakeholders to push the Canadian economy toward innovation. Instead, a belief in the traditional bulwarks of the Canadian economy – low-cost natural resources and replicating what companies do elsewhere in the world – prevailed. To prevent further slippage, Canada must innovate on a much bigger scale, says Martin. He thinks the country is well situated to do so: "Laurier's prediction that the 20th century would belong to Canada was a hundred years off. The world is heading towards a knowledge economy. Knowledge workers are highly educated and mobile, and they want to work in a safe, pleasant and culturally diverse environment. Canada fits the bill."

Venture capital firms help bring innovative ideas to market. That's why Rotman professor Mihnea Moldoveanu spends so much time probing their workings. What intrigues him is how decisions are made about what to back – and what to reject – an area that receives little academic study. "Venture capitalists maximize the chances of things going well," he says. "They poke holes in the ideas pitched to them, then choose those that are least bad." Surveying the marketplace, Moldoveanu thinks that Canadian venture capitalists need to be more daring. Too many, he says, "tag along after American venture capitalists, seeking to replicate what was done before. That needs to change." Moldoveanu and his students probe how such change can be brought about.

Moldoveanu's colleague, Maria Rotundo, grapples with other features of today's competitive marketplace. A specialist in human resources and organizational behaviour, she focuses

> on how to get the best and the brightest people in the door and keep them there. Talent is key to the ability of businesses and Canada to compete successfully.

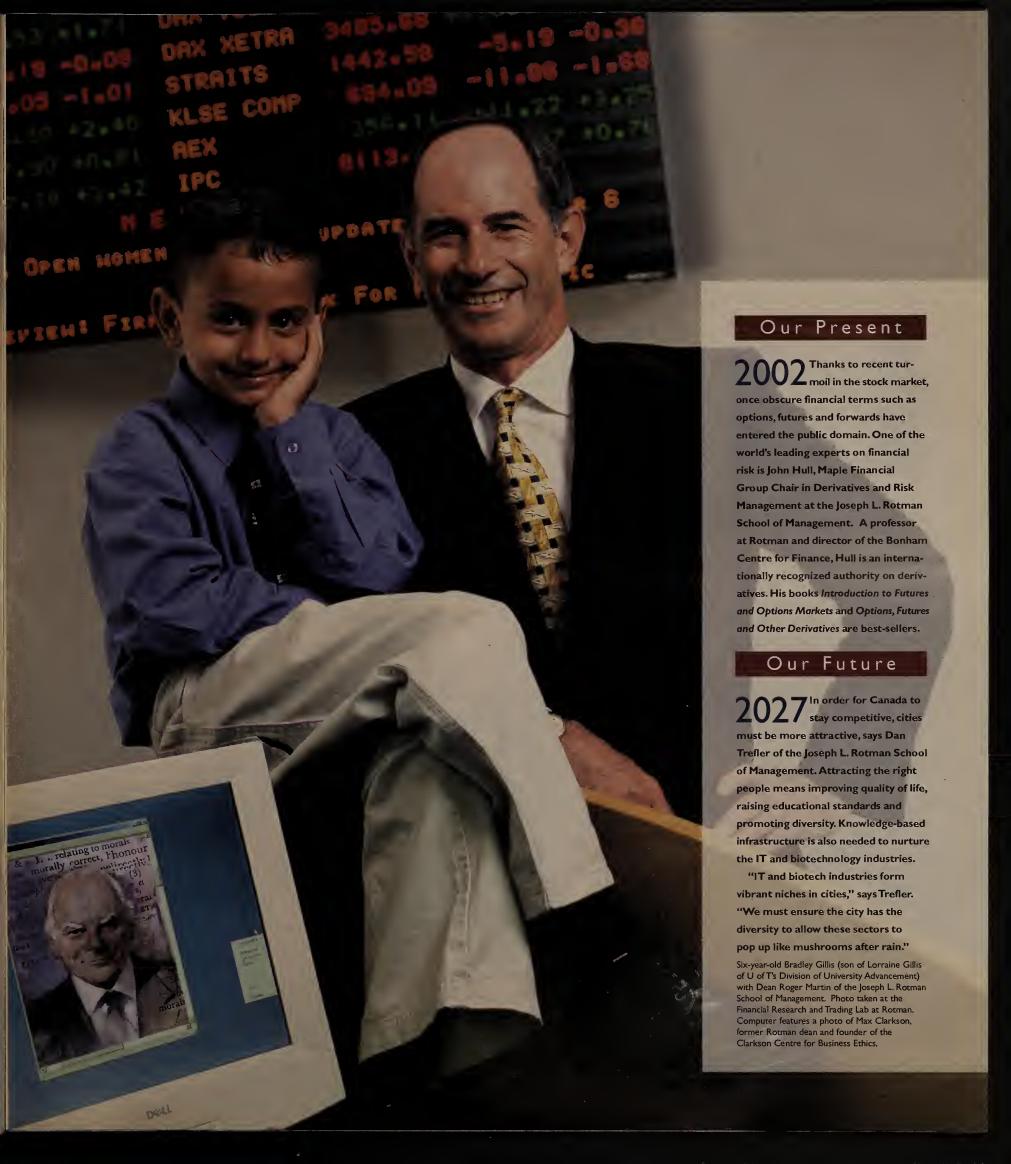
> Rotundo has always been interested in business and the relationship between people and the world of work. "There is a whole set of dynamics specific to the workplace that affect people's behaviour at work, and I like to develop theories that try to explain and predict this behaviour. The goal is to get the right people in the

right jobs working in an environment in which they thrive." Ensuring better places of employment is increasingly important, Rotundo says.

"With the anticipated talent shortage on the horizon, the competition for the best workers will be fierce. A company's selection system will be paramount because the implications of making poor hires become severe. Performance reviews, training and a positive work environment will be more important than ever." In other words, the demands of global competitiveness will be directly reflected in the workplace.

Researching these issues has taken Rotundo into complex studies of hiring practices, job performance reviews, leadership capability and sexual harassment, all increasingly important issues in the diverse global workplace.

Through the work of Roger Martin, Mihnea Moldoveanu and Maria Rotundo, the impact of global competitiveness and innovation can be seen clearly, making plain their urgency and importance. As Martin sees it, to make the 21st century belong to Canada the country needs to relentlessly follow a strategy of global competitiveness and innovation. The only question that remains, he says, is "Will we do it?"



## Innovations in Social Issues

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set of questions."

- Ianice Gross Stein



#### Our Past

1964 Marshall McLuhan, communications theorist and media guru, profoundly shaped our understanding of mass media and its impact on society. His ideas - the medium is the message, the global village have become part of everyday language.

joining the English department at U of T in 1946, McLuhan rose to fame as a media sage with such works as The Gutenberg Galaxy (1962), Understanding Media (1964), The Medium is the Massage (1967) (commonly referred to as The Medium is the Message) and War and Peace in the Global Village (1968). In these landmark texts, McLuhan argued that the main thrust for societal change was the development of new forms of communication.

In his 34 years at U ofT, McLuhan's influence became worldwide, encompassing everything from an NBC television special to a cameo appearance in Woody Allen's 1977 film Annie Hall. Today, the McLuhan Program of **Culture and Technology perpetuates** his name and ideas.

increasingly uncertain - some say dangerous - times, putting the day's issues into context is more important to everyone from individuals to governments. That's why Janice Gross Stein, Belzberg Professor of

Conflict Management and director of the Munk Centre for International Studies at U of T, spends her time trying to understand the post-September 11 world.

"Terror is a social problem," says Stein, "and it is organized in a way unlike our models of top-down, hierarchical leader-

ship. Terror networks have very flexible nodes of leadership. If one is destroyed, you carry on with another. The better we understand that, the better we can deal with the terrorist threat."

Stein's desire to better understand terrorism is fuelled by the fact that U of T is superbly positioned to provide fresh thinking on the subject. "Universities are innovative because they can approach the problem by shifting the lens to ask a different set of questions," she says. "This is valuable when government has lost much of its capacity

to step back and think innovatively about big social problems. The university can do that. Universities are now a key part of knowledge networks."

Stein's colleague in political science, Ron Deibert, is one such fresh thinker. Consider his Citizen Lab, focusing on research and development for citizens' networks; his work in the politics of Internet security; his championing of TV: "I tell students to watch more, not less."

Deibert bubbles over with ideas. His latest? This summer, Deibert and Stein chose five students to embark on a 21-day odyssey called "Into America." Deibert took the students through 26 U.S. states, testing hypotheses on four themes in American history: liberty, democracy, religion and the frontier. From Ground Zero to a gay rodeo in Nebraska, their motor home rumbled down interstate highways, with students asking questions, gaining a fuller understanding of U.S. society. "Into America" will be broadcast this fall on TVOntario.

As Deibert uses mass media tools to educate, Michael Fullan is using his own tools to improve classroom education. Fullan, dean of the Ontario Institute for Studies in Education at U of T, has been in the news because of his work in education reform.

In 1997, the British government hired Fullan and his team to evaluate strategies to increase literacy and numeracy rates among primary-aged students in 19,000 British schools. In 1996, literacy and numeracy levels among 11-year-olds were 57 and 54 per cent, respectively. Now they're "75 per cent for literacy and not quite 73 per cent for numeracy," reports Fullan. As gratifying as the numbers are, however, they don't complete the picture. Fullan's mandate includes bolstering teacher morale and improving principals' leadership skills. He's soon headed back to the U.K. to help implement this second-phase strategy.

At home, governments and schools are 66Universities are catching on to Fullan's success. For him, the issue is improving schools by clarifying what is expected and giving them tools to reach and maintain higher levels of achievement. If Fullan's success in Britain is any indication, his predictions are likely on target.

> As Fullan helps children in the classroom, Nico Trocmé works to understand the environment of maltreated children before they enter school. Trocmé is director of the Centre of Excellence for Child Welfare at the Faculty of Social Work and principal investigator

in a recent federal study documenting reported child abuse cases.

Child abuse is disturbing, a media hot button. Researchers such as Trocmé must not only paint an accurate picture of the situation, but measure the effectiveness of services for families in abusive situations. Trocmé's most recent findings show physical abuse cases in Canada doubled between 1993 and 1998, and emotional abuse cases have leapt by 870 per cent. Such findings are key in showing where intervention is needed most.

The enthusiasm Trocmé brings to his work comes from his time working with disadvantaged children in summer camps, plus five years with the Children's Aid Society of Toronto. "The image of the eight- or nine-year-old child, mistreated in some way, gripped my imagination," he says. "That's who I wanted to help. Our study found 135,000 cases of suspected child abuse or neglect in Canada. That's half the per capita rate of the U.S., which tells us something about the worth of social investments we have made in Canada." Trocmé hopes that "the underdeveloped field of child welfare research in this country really improves over the next generation. Canada should be a leader in the field."



# Innovations in Health



#### Our Past

At a time when the practice of medicine was almost exclusively dominated by men, Augusta Stowe-Gullen emerged as a pioneer of women's medical education in Canada. She was the first woman admitted to the Toronto School of Medicine, graduating in 1883.

Stowe-Gullen was appointed the first female staff member at the fledgling Ontario Women's Medical College, a position she held until the Women's Medical College amalgamated with U of T in 1906. She ran a private practice out of her home and worked at the Western Hospital (her husband was a founder) – even delivering the institute's first baby.

Throughout her life, Stowe-Gullen was known as a champion of women's issues, serving as honorary president of the Canadian Suffrage Association and a founding member of the National Council of Women. She succeeded her mother, Emily Stowe (also one of Canada's first women physicians), as president of the Dominion Women's Enfranchisement Association in 1902.

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avid Naylor, dean of medicine at U of T, leads the top-ranked health science faculty in the country, one that graduates close to 200 physicians a year, trains hundreds of post-graduate residents, educates almost 2,000 graduate students and pulls in more

"We never have had

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Dean David Naylor

Instead, we're

than \$300 million in research money annually. Medicine has always been about innovation, and U of T has a long history of it, from the discovery of insulin by Frederick Banting in 1922 to the groundbreaking work of Tak Mak in the biology of the immune system. It is an impressive history, perhaps

daunting. Not so, says Naylor. "We never have had the sense of being oppressed by history. Instead, we're galvanized by it."

Health science continues to change rapidly, says Naylor, and U of T is at the centre of such change in Canada. He cites a number of "happy accidents" to explain this, including the fact that U of T's medical school is the only one in the Greater Toronto Area. He lists other advantages: nine fully affiliated hospitals, a recent \$50-million gift from the R. Samuel McLaughlin

Foundation, and 5,000 full- and part-time academic appointees. These features, and others, add up to an "incredibly propitious setting for medical research," says Naylor.

Taking advantage of this setting is Peter St George-Hyslop, the award-winning director of the Centre for Research in Neurodegenerative Diseases. He and his team are trying to solve the mystery of Alzheimer's disease – and having a great deal of success. It's an illness that strikes five to 10 per cent of people over age 65 – at least 300,000 Canadians today have Alzheimer's. As St George-Hyslop says: "Many families suffer the anguish of caring for an intellectually incapacitated parent or grandparent who, just a few years earlier, was an active, vibrant member of the family."

St George-Hyslop became interested in the disease during his U of T residency. He's driven by "curiosity and consumed by finding out the answer – which always turns out to be much more complicated than one initially thought." Between 1985 and 2000, St George-Hyslop discovered five genes associated with Alzheimer's – a series of discoveries hailed as revolutionary in the field of molecular and biochemical research.

Like most dedicated scientists, St George-Hyslop spends long hours in the lab. In 2000, his work habits paid off again when he and his group isolated a key protein that binds to two of the earlier-discovered genes. The team also determined that the mutations in the genes causing Alzheimer's disease did so by forcing the abnormal processing of a protein called APP, which creates a toxic byproduct (called  $\Delta\beta$ ) that accumulates in the brains of patients with Alzheimer's.

These processes may be controlled through new treatments. St George-Hyslop and colleagues have recently reported the discovery of a novel potential therapy directed at using antibodies

to remove the toxic protein byproduct.

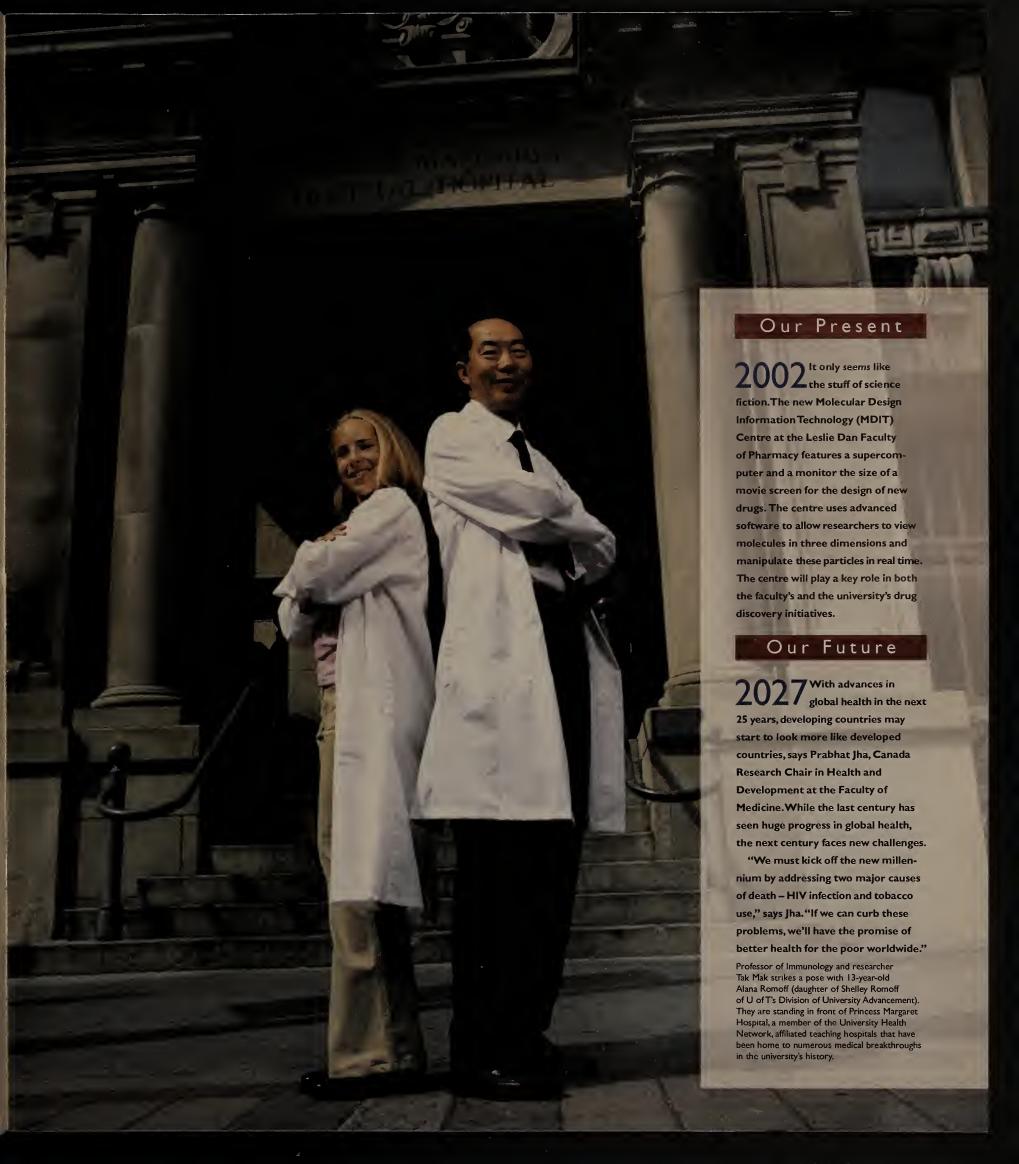
Near St George-Hyslop's lab works Tony Pawson, a decorated scientist in cell biology and director of research at Mount Sinai Hospital's Samuel Lunenfeld Institute, affiliated with U of T. His research is about unlocking the secrets of "how cells are organized and how they communicate with one another," he says.

In each of the human body's millions of cells are some 35,000 genes and at least as many proteins, the cells' workhorses. In

order to communicate, the cells signal each other using their proteins. If this signaling system breaks down – for example, the cell fails to respond to a protein such as insulin – then disease, such as diabetes, results.

British-born and Cambridge-educated, Pawson has had a profound impact on understanding diabetes, as well as cancer, immune deficiencies and cardiovascular disorders. But the mystery of the cell is tough to crack.

"We have a pretty good idea of the bits and pieces that make up the human cell," says Pawson. "What we don't really understand is how the cell as a whole functions. I liken it to an orchestra. We can hear many of the individual instruments, but we want to hear the whole orchestra." Pawson thinks that within another generation, the "orchestra" will be heard: full understanding of the cell will be achieved through a combination of novel experimental approaches and computer-based mathematical analysis. In the meantime his work, and that of others, makes U of T a leading innovator in what David Naylor calls the "dramatically changing landscape" of health science.



# Innovations in Science and Technology

U of T is

"well positioned to

globally of nanotech-

be at the forefront

nology research."

- Dean Anastasios

Venetsanopoulos



#### Our Past

1937 Elizabeth "Elsie" MacGill was not one to follow in others' footsteps. A 1927 graduate of U of T, MacGill was the first woman to graduate in Canada with a degree in electrical engineering. Dubbed "queen of the Hurricanes" in honour of the Second World War fighter plane she helped produce and refit, MacGill was Canada's first female electrical engineer and the first woman aircraft designer in the world.

In 1937, MacGill joined the
Canadian Car and Foundry Company
in Fort William, Ontario, where she
designed the Maple Leaf Trainer.
During the Second World War, MacGill
supervised as many as 4,500 people as
Canada produced more than 2,000
Hawker Hurricane fighter planes for
the war effort. She also devised a
solution allowing the Hurricane to fly
better in cold weather. Polio prevented
her from flying her own creations,
but she accompanied each test flight.

MacGill died on November 4, 1980, and three years later was inducted into Canada's Aviation Hall of Fame.

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cientific research – both pure and applied – has advanced at a blinding rate in the last century: As its progress begins to outstrip even the human imagination, science and technology research has become an area of great promise, especially at U of T.

"Computing of the future will reach its maturity when it ceases to be noticed," says Anastasios Venetsanopoulos, dean of U of T's Faculty of Applied Science and Engineering and inaugural holder of the Bell Canada Chair in Multimedia. He's talking about nanotechnology: engineering on the

scale of a nanometre (one-billionth of a metre) that will allow "miniscule devices to be embedded in our clothes and bodies – ubiquitous computing – which will enhance our capabilities. We may even achieve an integration of thinking and computer devices."

Venetsanopoulos has been at U of T since 1968. He worked on early attempts to digitize satellite images back in the 1970s. In the '80s and '90s, he helped develop an algorithm to remove artifacts such as dust from images captured by

astronauts in space. This innovation earned him the "Excellence in Innovation Award" from the Information Technology Research Centre of Ontario and the Royal Bank of Canada.

Venetsanopoulos marvels at how nanotechnology is moving to the forefront of what he calls "major breakthrough science." He says U of T is "well positioned to be at the forefront globally of nanotechnology research. With the launch of the nanoengineering option in our engineering science program, we are the first to teach this new science at the undergraduate level."

One of the researchers responsible for this leadership position in nanotechnology research is Ted Sargent, an electrical and computer engineer. He holds the Nortel Networks-Canada Research Chair in Emerging Technologies and is working to build the optical Internet. Sargent is working at the intersection of nanotechnology and photonics – engineering using light – to create new materials and networks.

Once achieved, the optical Internet will use the "laser as a source of energy, together with the carrying capacity of the glass fibre strand, to send vast amounts of information at a trillion bits per second. The optical Internet, in contrast, with the existing set of fixed fibre-optic links, will do so with agility – responding at light speed to the new needs of the information society." The current need to convert optical patterns to electricity and then convert electricity back again to light will be gone. "What we want to do is exploit light fully," says Sargent, "rather than using it as a hybrid, the way it is now."

Sargent and his team are moving toward their goal. Recently, they scored ultra-fine channels through a thin polymer film, so that colloidal crystals – a natural substance controlling the flow of light – fell into patterns of the researchers' own design.

Controlling light is difficult but crucial to building the new routing switches for the optical Internet.

Sargent sees a future in which, through the optical Internet, "distance becomes transparent. So far, we've bent to the machines instead of the reverse. The dream is that you shouldn't have to move matter in order to move experience."

Molly Shoicher's work might seem like the stuff of dreams. She's a chemical engineer, the Canada Research Chairholder in Tissue Engineering and a researcher on

the verge of changing the lives of people paralyzed by spinal cord injuries. She studies techniques for growing artificial implants to transplant, and designs implants to encourage damaged cells to regenerate.

Since coming to U of T in 1995, Shoichet has made huge breakthroughs in nerve damage. "We're developing a localized drug delivery system which promotes regeneration in a spine damaged by a compression injury. So far, we've had some success testing it in rats," she says.

For other spinal cord injuries – trans-sections resulting from stabbings, for instance – Shoichet is working on inserting "small, porous tubes designed to match the mechanical properties of the spinal cord in order to promote regeneration."

Shoichet's work is giving hope, especially to those who have suffered spinal cord injuries. It's gratifying to make a difference, she says. "We're not treating patients, but the contact we have is meaningful. In academia, we should be working on really big problems. Tissue engineering combines science and medicine, something U of T and its teaching hospitals do exceedingly well."



# Innovations in Arts and Culture



#### Our Past

1957 Perhaps no one has cast a longer shadow over the cultural landscape of the university than Northrop Frye, the nation's foremost literary critic and noted commentator on Canadian society and culture.

Frye rose to international prominence in 1957 with the publication of Anotomy of Criticism, his treatise on literary symbolism. In Anotomy, he argued that all literature is bound together by a hidden web of repeated archetypes and symbols. The works garnered Frye, a Victoria College English professor, a large academic following. In 1951, he was made a fellow of the Royal Society of Canada.

Over the next 40 years until his death in 1991, Frye was one of the most decorated university professors, becoming Victoria College's chancellor in 1978 and significantly influencing English curriculum in Canadian schools and universities. He lectured or taught at more than 100 universities worldwide and was awarded 38 honorary doctorates.

he technological revolution of the late 20th century has its equivalent in the humanities, where development of new theories and ideas has rapidly accelerated. Different areas of thought jostle against one another to produce new hybrids. Interdisciplinary and collaborative are key terms, and researchers such as Linda Hutcheon, University Professor of English and Comparative Literature, are on the leading edge

Since 1997, Hutcheon has co-coordinated "Rethinking

Literary History." Soon to be published by Oxford University Press, the project has more than 300 researchers from Latin America and East-Central Europe working in teams. "Besides literary scholars, there are folklorists, cultural geographers, historians," she says. Together, they

of the evolutionary curve.

challenge traditional views of literary history, examining works from many viewpoints: political, economic, demographic, historic.

Presiding over large numbers of academics is not new for Hutcheon. In 2000, she was president of the Modern Language Association of America, the world's largest humanities organization, where she saw first hand how the literature field is changing. And much more change is coming in graduate studies, says Hutcheon. Being able to apply skills across fields is the way of the future. "Talking the talk won't do," she says. "Interdisciplinarity requires that if you do it, you do it well. It's hard work."

Rick Halpern, Bissell-Heyd-Associates Professor of History and acting director of the Centre for the Study of the United States, knows how difficult interdisciplinary work can be. One of his projects is a study of the racialization of migrant labour in colonial South Africa and in turn-of-the-century Louisiana. It's a project that puts history, economics and social issues on a collision course. Despite their similarities, the two cases have significantly different outcomes. Sicilian labourers of Louisiana broke free of oppression, while South Asian workers were controlled by South African farmers.

Halpern's interest in race and labour history led him to study Chicago's meatpacking business in the first half of the 20th century. He's participating in project called "Chicago 1919: Working Class Culture and Politics in an American Metropolis." 1919 was a year marked by riots and labour clashes, set to the tune of post-world war reconstruction. Most interesting for Halpern is the population's diversity during this time. "Half the population was foreign born – like Toronto is now." For him, U of T is the perfect place to work, not least because Toronto is "the diasporic city."

Integration of disciplines is attractive to Mark Cheetham of the fine art department. His latest book, Kant, Art, and Art History: Moments of Discipline (2001), brings together Cheetham's study of philosophy with his knowledge of art history. In his book, he demonstrates philosopher Immanuel Kant's influence, not just on art, but on art critics. "I attempt

Being able to apply

skills across fields is

the way of the future.

to understand the impact of Kant's philosophy on art," says Cheetham, "especially his interest in republicanism in the revolutionary 1790s."

For him, interdisciplinary research is all part of teaching. "I make no distinction between research and teaching," he says.

This fall, he's teaching "Artwriting, Past and Present," bringing together analysis of art criticism, history and interpretation. It squares nicely with his hope that the "passion for change in what is studied and how it's studied will continue, pushing art beyond its traditional boundaries."

English professor George Elliott Clarke knows about pushing boundaries. Winner of the 2001 Governor General's award for poetry for *Execution Poems*, he has been writing about his home community in Nova Scotia for 20 years. It's a focus that's brought history, social issues and literature together in Clarke's lyrical brand of poetry.

Clarke published his first book of poetry in 1983. Since then, he has written about an "epic people," the African-Canadians of the Annapolis Valley and Nova Scotia. He listened to their stories, a form of oral literature – "orature" – and wrote them down. "Over the years, it was forgotten there was a lot of poetry in the way these people spoke. When I listened, I was thunderstruck. I was hearing Shakespeare," says Clarke. Out of this came the award-winning Whylah Falls (1990), a transfigurative treatment of Weymouth Falls, a community in southwest Nova Scotia.

More books and stage plays have followed. Clarke is optimistic that the oeuvre of African-Canadian literature will broaden in years to come. As the interdisciplinary approach to studying – and creating – these landmark works grows, it seems that the humanities is gearing up for another century of change.



# Looking Back at 2002



Above: Vivek Krishnamurthy, Innis College alumnus and 2002 Rhodes scholar.

Below: U of T President Robert J.

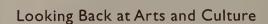
Birgeneau with UTSC students, faculty and staff breaking ground on the

Academic Resource Centre.

#### Looking Back at a Year of Growth and Celebration

- The University of Toronto marks its 175th anniversary. To celebrate this landmark year, the university hosts a series of anniversary events highlighting the accomplishments that have made U of T one of Canada's most important cultural and scientific institutions. Events include the launch of Martin Friedland's *The University of Toronto: A History*, a Homecoming weekend, international symposia and community movie nights.
- In June, the University of Toronto at Scarborough (UTSC) breaks ground for its first new academic building in 30 years the Academic Resource Centre (ARC). The ARC will feature library services, teaching and learning space, multimedia production facilities, a 500-seat computerized lecture and performance theatre, and a digital library.
- New College begins construction of its new residence in February. Scheduled for completion in 2003, the nine-storey, dormitory-style residence will house 277 students and will include a multi-purpose theatre, study space and academic and student offices.

- Construction of the new Woodsworth College residence begins in July. Scheduled to open in 2004, the residence will provide accommodation for 360 undergraduate students, plus classrooms and ground-level retail space.
- Trinity College celebrates its 150th anniversary with a host of special events: a gala kick-off with the Governor General in attendance, a concert of 19th-century music and a Victorian Christmas in Strachan Hall, which provides an opportunity for faculty, staff and alumni to don period ball gowns and tails.
- University of Toronto at Mississauga (UTM) undergoes major capital expansion with construction beginning on a new residence complex to accommodate 192 undergraduate students. The building is scheduled to open in September 2003.
- University College (UC) moves forward with its plan to construct a new residence to accommodate up to 300 students. Project architect Zeidler Grinnell Partnership presents its design proposal to the UC College Council and students societies, where it receives unanimous approval.
- The University of St. Michael's College celebrates its 150th anniversary, starting with the official opening of a new residence. Accommodating 180 students, the Sorbara Hall Student Residence is architecturally modeled on the oldest building at the university, St. Basil's Church/Clover Hill. In September, more than 700 alumni, students, faculty, staff and friends enjoy a sensational anniversary gala. Celebrations draw to a close in October with a liturgical celebration and birthday cake.



- Hart House debaters take top honours at the National Debating Championship and the North American Championship. In December, 108 schools from more than 30 countries come to U of T for the World Universities Debating Championship.
- Members of the Faculty of Arts and Science capture two Governor General's Literary Awards for 2001: George Elliott Clarke for poetry and Thomas Homer-Dixon for non-fiction.



- The Eric Arthur Gallery at the Faculty of Architecture, Landscape, and Design officially opens in November.
- A \$250,000 gift from Michael Koerner, double matched by the university, establishes the Michael and Sonja Koerner Distinguished Visitor in Composition at the Faculty of Music. Combined with the Roger D. Moore Distinguished Visitor in Composition fund, this gift represents unparalleled support for bringing both Canadian and international composers to the faculty.
- The Justina M. Barnicke Gallery at Hart House features The Feldberg Collection: Self-Portraits from 1920s Berlin. It is the first time that these works have been seen outside of Berlin, and only their second showing since 1923. The exhibition receives critical acclaim.
- Chancellor Henry N. R. Jackman donates \$15 million for the endowment of professorships, symposia, lectures and distinguished visitors in the humanities and social sciences. A double match from the university triples the gift to \$45 million, the largest Canadian gift to these fields of study.
- The U of T Library introduces a new public access catalogue and information management system that provides web-based access to the database of 6.3 million catalogue records and supports over 4.6 million transactions annually. Users can review and renew current loans, place holds on books, and view enriched information for many recent books, including images of book covers, reviews, tables of contents and author biographies.
- Preston Manning is named the first Dean's Distinguished Visitor in Political Science and Canadian Studies at the Faculty of Arts and Science.
- Berlin architect Daniel Libeskind is named the inaugural holder of the Frank Gehry International Visiting Chair in Architectural Design. Libeskind, who taught at the Faculty of Architecture, Landscape, and Design in the 1970s, is the author of the new design for the Royal Ontario Museum, among other famous works.
- The wooden cross that has been part of the World Youth Day conferences since 1985 touches down in June at the

quadrangle and future site of the 150th anniversary garden at St. Michael's College. The cross continues from the Newman Parish on a day-long journey to chaplaincy sites.

- The Honourable Lloyd Axworthy delivers the sixth annual Victoria University Keith Davey Lecture in March in the Isabel Bader Theatre on the Victoria campus. His address, "Liberals at the Border: We stand on guard for whom?" examines Canada's relationship with the U.S. in the aftermath of the events of September 11, 2001.
- Vivek Krishnamurthy, Innis College alumnus, is one of 11 Canadian students to win a 2002 Rhodes scholarship to the University of Oxford.
- A donation by the late Grace Buller and the Ontario Library Association helps the Faculty of Information Studies establish the first Aboriginal graduate student scholarship in information management.
- In October, New College holds the inaugural Marion and Ross Woodman Speakers Series featuring Marion and Ross Woodman, Anthony Stevens and G. Richard Smith. The speakers series is established to further comparative and cross-disciplinary discussion of the human experience in the spirit of analytical psychologist Carl Jung's research.
- Library users now have access to more than 20,000 licensed electronic resources. These electronic books, journals and other resources allow students and faculty to work when and where they want.
- For the first time in its 80-year history, Hart House Theatre is integrated with Hart House cultural programming under one administration, producing its first season in 16 years. An all-star cast of alumni perform in "Been Staged," a benefit to secure the future of Hart House Theatre.

Top: Launch of U of T's 175th anniversary (from left to right): President Robert Birgeneau, Chancellor Emerita Rose Wolfe, the Honourable James Karl Bartleman (Lieutenant Governor of Ontario), Wendy Cecil (chair of Presidents' Circle), University Professor Emeritus Martin Friedland and Chancellor Henry Jackman. Middle:Trinity graduates Bill Westfall and Cathy Leigh James at the Victorian Christmas Party at Trinity College.

Bottom:World Youth Day Cross is held aloft by volunteers at St. Michael's College.







Right: Leslie Dan, pharmacy graduate, chairman of the board of Viventia Biotech and supporter of the Leslie Dan Faculty of Pharmacy.

Middle: The MOST (Microvariability and Oscillations of STars), microsatellite, scheduled for launch in April 2003.

Bottom: Rotman class of 2002 MBA graduates Juliana Kwong, Michael Lea and Arshad Malick.

#### Looking Back at Health

- The Faculty of Pharmacy is renamed the Leslie Dan Faculty of Pharmacy in honour of Dan's gifts of nearly \$15 million to U of T.
- The Faculty of Medicine receives a \$5 million gift from Terrence Donnelly in support of the Centre for Cellular and Biomolecular Research. Ground is broken in September for the new centre, which will bring together researchers in the sciences, medicine, pharmacy and engineering.
- Under the co-direction of Cary Galler and Peter Birek, the Periodontal Plastics Research Unit is established at the Faculty of Dentistry. The unit will develop the emerging area of periodontology (the study and treatment of the gums).
- Alan Bernstein pioneer in genomics, president of the Canadian Institutes of Health Research and professor of medical genetics and microbiology is appointed to the Order of Canada.
- Researchers in the Faculty of Medicine discover a vaccine that may help prevent and treat the disabling memory loss and cognitive impairment of Alzheimer's disease.
  - UTM alumna Claire Carver-Dias reigns supreme at the Commonwealth Games, taking the individual gold medal in synchronized swimming. Carver-Dias and UTM undergrad Fanny Létourneau also pick up the duet gold medal. In 2000, Carver-Dias and Létourneau won bronze at the Sydney Olympics, along with team members and UTM undergrads Erin Chan and Catherine Garceau.
  - A \$5 million gift from pharmaceutical company Apotex to the Faculty of Pharmacy establishes the Apotex Resource Centre and the Apotex Multi-Media Classroom, designed to produce Canada's next generation of leaders in pharmacy research and professional
  - The Faculty of Nursing offers the first online master of nursing the Acute Care Nurse Practioner program.

This is the first of its kind in Canada and the first online degree program at the university.

- The Centre for Applied Bioscience and Biotechnology, a specialized research facility to study DNA chemistry, opens on the Mississauga campus in October.
- The Faculty of Dentistry is named a principal participant in three Canadian Institutes of Health Research Training Programs, focusing on intradisciplinary research in the areas of fundamental science, clinical investigation, population studies and health services.
- Researchers at U of T, the Hospital for Sick Children and the Amgen Institute find a genetic link to pain relief. Their research opens up a new and promising approach to pain management.

#### Looking Back at Science and Technology

- The Bahen Centre for Information Technology opens in October, the first new building in more than a decade for the Faculty of Applied Science and Engineering. The state-of-the-art facility is the university's focal point for world-class teaching and research in information technology.
- Professor and geophysicist Jerry Mitrovica of the physics department wins the National Research Council's 2001 Steacie Prize, Canada's most prestigious science award.
- Work begins on the Communication, Culture and Information Technology building at UTM. The centre, slated to open in mid-2004, will be home to UTM's newest joint program with Sheridan College in human communications.
- A new method is developed by researchers at the Institute of Biomaterials and Biomedical Engineering for growing specialized cells from embryonic stem cells. The discovery could provide large numbers of cells for research and clinical purposes.
- A microsatellite developed by the U of T Institute for Aerospace Studies gives researchers a low-cost and unique glimpse of the stars. The satellite weighs only 60 kilograms and is the size of a suitcase.





Right: UTM students and Olympic swimmers (clockwise from upper left): Fanny Létourneau, Catherine Garceau, Erin Chan and Claire Carver-Dias.

Middle: Michael Trebilcock, professor at the Faculty of Law.

Bottom: Students in the International English as a Second Language Program at the School of Continuing Studies.

- The Knowledge Media Design Institute (KMDI) launches a collaborative program that allows graduate students from a variety of faculties to design, evaluate and use new media tools. KMDI was established in the School of Graduate Studies in 1998 as a focus for members of the university community interested in the cross-disciplinary field of knowledge media design.
- The Canadian Institute for Advanced Research selects the top 20 scientific researchers in the country under the age of 40 eight of them are U of T scientists.
- The Faculty of Forestry joins forces with the geography department, U of T's Institute for Environmental Studies and university partners in China to study the role of forests in managing carbon build up in China's environment. The project will increase China's capacity to monitor the role of forests in the "carbon cycle."

#### Looking Back at Global Competitiveness

- Corus Entertainment pledges \$2 million to fund a chair in communications strategy at the Joseph L. Rotman School of Management. The chairholder will investigate trends towards convergence in the Canadian media.
- The School of Continuing Studies, which registered 16,000 students in the 2001-02 academic year at its downtown Toronto, Oakville and Markham sites, prepares to offer courses in other communities outside Toronto.
- Three U of T scholars from the Faculty of Arts and Science Edward Chamberlin of English, Victor Ivrii of mathematics and Thomas Pangle of political science capture Killam fellowships, one of Canada's most distinguished research awards.
- Four U of T alumni and a current student lead Canada to an Olympic gold medal in women's hockey in Salt Lake City, Utah: alumni Lori Dupuis, Vicky Sunohara, Karen Hughes and David Jamieson (goal-tending coach), and student Jayna Hefford.
- The Wall Street Journal ranks the Joseph L. Rotman School of Management among the top 50 MBA programs in the world. Business Week ranks the school fifth among 10 interna-

tional schools in the top tier, and the *Financial Times* of London also moves the Rotman School from the 46th position to 31st in its world rankings.

• U of T hosts the largest gathering of scholars in the social sciences and humanities in North America as the Congress of the Social Sciences and Humanities is held May 25 to June 1.

#### Looking Back at Social Issues

- The Centre of Excellence for Child Welfare is established at the Faculty of Social Work by Health Canada in recognition of the faculty's leadership in child welfare research and education. One of five centres for children's wellbeing in Canada, the unit promotes research into child abuse and neglect, and co-ordinates child welfare knowledge and expertise. Research will focus on initiatives that support effective treatment and prevention services for children and youth.
- OISE/UT receives a \$616,000 grant from the Canada Foundation for Innovation. Combined with matching funds from the Ontario Innovation Trust and support from other partners, the grant helps develop a laboratory network for innovation and technology in education.
- Faculty of Law professor Michael Trebilcock is named one of *Maclean's* magazine's 50 most influential Canadians. The article describes him as a "pioneer in a multidisciplinary field, law and economics, [whose] texts are shaping legal debate in the courts."
- The J. Robert S. Prichard and Ann E. Wilson Chair in Law and Public Policy is established at the Faculty of Law. Supporters are Gerry Schwartz and Heather Reisman; the law firms of Cassels Brock & Blackwell, Heenan Blaikie, and Torys; the Bank of Nova Scotia; and W. Edmund Clark, the Honourable David R. Peterson and Brent Belzberg.
- A donation from HSBC Bank Canada helps to fund the Steps to University Programme, part of the university's Transitional Year Programme. Steps to University seeks to increase access to post-secondary education for non-traditional students.







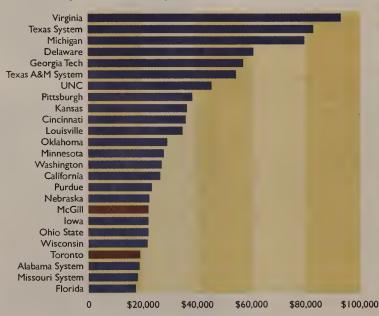
### Finance and Enrolment

#### **Comparative Student Enrolments**

Total Number	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02
of Students*	12		11			
Full-time	37,839	38,346	39,976	41,161	41,725	43,641
Part-time	14,419	13,892	12,821	12,971	13,402	14,418
Total	52,258	52,238	52,797	54,132	55,127	58,059
Summer	25,752	25,596	25,840	25,008	26,725	27,102
					1	
Made up of						
Undergraduate**	41,167	41,222	41,873	42,664	43,055	44,895
International	1,204	1,141	1,266	1,568	1,909	2,387
Graduate**	9,063	9,057	8,836	9,001	9,187	9,627
International	824	818	822	899	976	1,150
Total	52,258	52,238	52,797	54,132	55,127	58,059
Continuing						
Studies						
Enrolment	11,967	11,371	9,041	14,167	14,216	15,962

\* Not including Toronto School of Theology and non-credit course enrolments \*\* Canadian citizens and permanent residents

#### Top 25 Endowments at Public Institutions per Full-time Equivalent Student (U.S. Dollars)

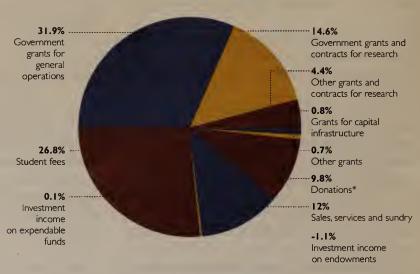


Note: The University of Toronto figure includes the endowments of the three federated universities.
Source: 2001 NACUBO Endowment Study

The per student value in Canadian dollars for McGill is \$33,550 The per student value in Canadian dollars for U of T is \$28,796

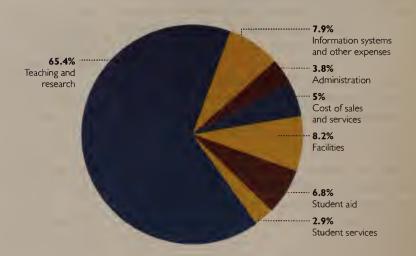
#### **Sources and Distribution of University Funds** May 1, 2001 to April 30, 2002

#### **Funds Received by Source**



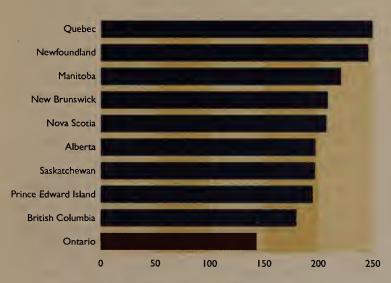
\* Donation total is equivalent to 15% of the university's operating budget.

#### **Expenses by Category**



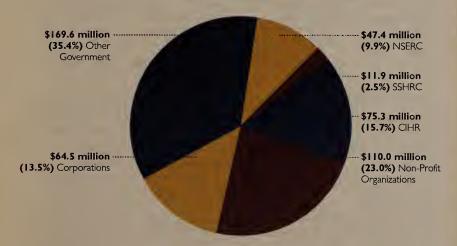
Enrolment increases this year reflect the early effects of the baby boom echo and the double-cohort, stemming from the elimination of Grade I3 in Ontario. Reflecting its ambition to rank as one of the world's top public research universities, U ofT devoted greater levels of support to student aid and student services, while recording increases in research grants and contracts. Private support continues to enhance the university's endowment, although on a per-student basis, U ofT's endowment trails McGill's and is significantly below that of peer public research universities in the U.S.

#### Provincial University Operating Grants per Capita Provincial Comparison 2001-2002



Source: Council of Ontario Universities

#### Sources of Research Grants and Contracts April 2000 to March 2001 Total: \$478.7 Million



CIHR: Canadian Institutes of Health Research, formerly Medical Research Council of Canada NSERC; Natural Sciences and Engineering Research Council of Canada SSHRC: Social Sciences and Humanities Research Council of Canada Note: Total includes research funding held at the affiliated teaching hospitals

# Statement of Operations for the Fiscal Year Ended April 30, 2002 (with comparative figures for the fiscal year ended April 30, 2001) (\$ millions)

	2002		2001 \$	
REVENUES Government grants for general operations		396.2		380.7
Student fees		333.7		299.8
Donations				
Received *	122.4		98.1	
Externally restricted endowments	(88.1)	34.3	(53.8)	44.3
Government and other grants for restricted purposes Received for:				
Research	205.9		225.5	
Capital infrastructure and other	16.2		30.7	
Deferred for future spending	(10.9)	211.2	(125.2)	131.0
Contract research		30.5		31.5
Investment income				
Endowments	(13.6)		(8.0)	
Expendable	1.4	(12.2)	30.1	22.1
Sales, services and sundry income		149.6		132.2
		1,143.3		1,041.6
EXPENSES				
Salaries and benefits		714.7		642.4
Materials and supplies Scholarships, fellowships and bursaries		166.1 86.7		125.9 68.6
Cost of sales and services		63.0		55.8
Amortization of capital assets		61.4		60.2
Repairs and maintenance		57.3		59.3
Utilities		35.1		32.3
Travel and conferences		26.6		23.6
External contracted services		16.7		13.2
Interest		13.4		4.9
Telecommunications		9.4		9.5
Other		18.0		11.8
		1,268.4		1,107.5
Revenues less expenses		(125.1)		(65.9)

#### Statement of Changes in Deficit for the Fiscal Year Ended April 30, 2002 (with comparative figures for the fiscal year ended April 30, 2001) (\$ millions)

Decrease in funds committed		
for specific purposes	73.5	15.0
Increase in investment in capital assets	(27.3)	(5.9)
Transfer of donations to endowments	(4.7)	(8.4)
Transfer from internally and externally		
restricted endowments	70.9	57.6
Net change in deficit for the year	(12.7)	(7.6)
Deficit, beginning of year	(19.3)	(11.7)
Deficit, end of year	(32.0)	(19.3)

Copies of U of T's audited financial statements as at April 30, 2002, are available from the Department of Public Affairs, J. Robert S. Prichard Alumni House, 21 King's College Circle, Toronto, ON M5S 3J3 or on our Web site at www.library.utoronto.ca/finance

# In Support of Research

The University of Toronto wishes to express its gratitude to the many organizations, public and private, that financially supported the research undertaken by its faculty and students between May 2001 and April 2002.

CANADA FOUNDATION FOR INNOVATION

CANADA RESEARCH CHAIRS PROGRAM

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Association of Universities & Colleges of Canada AstraZeneca AstraZeneca Canada Inc Athena Educational Partners Inc. The Atkinson Charitable Foundation Aur Resources Inc. Aventis CropScience N.V. Aventis Pasteur Ltd. Axela Biosensors Inc. Babcock & Wilcox Canada E.A. Baker Foundation of the CNIB Banting & Best Diabetes Centre Banting Research Foundation Barrick Gold Corporation Ltd. Battle Mountain Canada Baycrest Centre for Geriatric Care BC Cancer Agency The Ian Douglas Bebensee Foundation of Canada Bell Canada The Dr. Charles H. Best J. P. Bickell Foundation BioChem Therapeutic Inc Black River Systems Company, Inc. Bloorview Children's Hospital Foundation Bloorview MacMillan Children's Centre Boehringer Ingelheim (Canada) Ltd. BoneTec Corporation Boral Material Technologies Inc. Borealis GmbH Boston Scientific Ltd. Bowater Inc. Bowater Pulp and Paper Canada Inc. Bristol-Myers Canada Inc. Bristol-Myers Squibb Pharmaceutical Group Bristol-Myers Squibb Foundation Inc. The British Academy Burcon NutraScience (MB) Corporation Burroughs Wellcome Fund The Canada Council Canada Russia Business Forum Canada's Research-Based

Canadian Academic Accounting Association Canadian Association of Gastroenterology Canadian Association of Second Language Teachers Canadian Association of University Teachers Canadian Bar Association, Law for the Future Fund Canadian Cancer Society Canadian Centre for Philanthropy Canadian Chiropractic Association Canadian Chlorine Coordinating Committee Canadian Cystic Fibrosis Canadian Dermatology Canadian Diabetes Canadian Drug Manufacture Association Canadian Forest Products Ltd. Canadian Foundation for AIDS Research (CANFAR) Canadian Foundation for Climate and Atmospheric Studies Canadian Health Services Research Foundation Canadian Hemophilia Society Canadian Imperial Bank of Commerce Disease Society Canadian Institute for Advanced Research Canadian Institute for Climate Studies Canadian Institute for International Peace and Security Ukrainian Studies Canadian Liver Foundation Canadian Lung Association Canadian Marconi Company Canadian Network of Toxicology Centres Canadian Occupational Therapy Foundation Canadian Orthopaedic Foundation Canadian Pacific Charitable Foundation Canadian Portland Cement Association Canadian Society for Clinical Pharmacology

Canadian Society for Canadian Working Group on HIV and Rehabilitation Canberra Co. Cancer Research Institute (US) Cancer Research Society Inc. Cangene Corporation CanPacific Group Inc. Pharmaceuticals Inc Cardion AG CEFIC - The European Chemical Industry Council Celestica Inc Centocor, Inc. Centre for Addiction and Centre for Automotive Materials and Manufacturing Centre for Canadian Language Benchmarks Centre for Chemical Process Metallurgy CH2M Hill Chameleon Systems Inc. The Change Foundation Chiang Ching-kuo Chondrogene Inc. Christopher Reeve Paralysis Foundation City of Barrie City of Guelph City of Peterborough City of Pickering City of Toronto City of Winnipeg Clariant Huningue S.A. The Cloverleaf Foundation Clyde-Bergemann Inc. Colortech Inc. COM DEV International Ltd. Community Care Access ConjuChem Inc. Connaught Fund Consortium for Software Engineering Research Corporacion de Investigaciones Economicas para Latinoamerica Crohn's & Colitis Foundation of Canada Crompton Co./Cie The lames H. Cummings Foundation Inc.

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Environment and
Labour

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Neurological Disorders

and Kidney Diseases

National Institute of

and Stroke National Institute of Nursing Research Physics National Institute on Health Aging National Institute on Drug Abuse National Science Office of Army Research United States Air Force Integrative Great Lakes Fishery Commission GSI Lumonics Inc. Harry Frank Guggenheim Foundation Guoteng Canada Inc Hamilton Community Foundation Harcourt Brace & Paraplegia Company Ltd. Harvard University Haskins Laboratories Company HATCH J. C. Headwaters Canada, Inc. Heart and Stroke Energy Inc Foundation of Canada ITER Inc. Heart and Stroke The Richard Ivey Foundation of Ontario Foundation The Lotte and John lapan Carlit Company Ltd. Hecht Memorial Johann Jacobs Foundation Foundation Stanley Thomas Johnson H. J. Heinz Company of Canada Ltd. lust Watch Me Inc Heinz Institute of luvenile Diabetes Nutritional Science Foundation Canada Hereditary Disease luvenile Diabetes Foundation Foundation

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The Kahanoff

**KBM** Forestry

Kellogg Canada Inc.

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Honeywell Hôpital du Sacré-Coeu de Montréal Hospital for Sick Children Hospital For Sick Children Foundation Howard Hughes Medical HRL Laboratories, LLC Hudson Bay Mining and Smelting Company Human Frontier Science Program Organization Hungarian Research Institute of Canada The Mary Gertrude l'Anson Fund IBM Canada Ltd. ICI Paints (Canada) Ltd. IMAX Corporation Imperial Oil Charitable Foundation Inco Ltd. Inco Technical Services Ltd. Innova LifeSciences Corporation Insolvency Institute of Canada Institut de protection et sureté nucléaire Institute for Particle Institute for Work & Institute of International Institute of Paper Science Technology Technologies Inc Proteomics, Inc. Integrity Testing Laboratory Inc Interface Biologics Inc. Interforest Ltd. International Foundation for Music Research International Institute for Research in International Nut Council International Paper Irving Pulp & Paper, Ltd. ISG Resources Inc. ITER Canada Fusion

Mitel Corporation Mitsubishi Electric Corporation The Kenneth M. Molson Foundation Montgomery Watson Americas Inc. Motion Picture Association of America Motorola Inc Mount Sinai Hospital Multiple Sclerosi Society of Canada Muscular Dystrophy Association (US) Mycota Biosciences Inc. National Academy of National Alliance for Research on Schizophrenia and Depression National Alliance for the Mentally III National Association of Laboratory Schools

National Cancer Institute of Canada National Geographic Society National Network on Environments and Women's Health National Renewable Energy Laboratory National Sanitarium Association National Space Development Agency of Japan (NASDA)

Kvaerner Pulping Oy

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University Foundation

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Learning First Alliance

Leukemia Research Fund

Canada

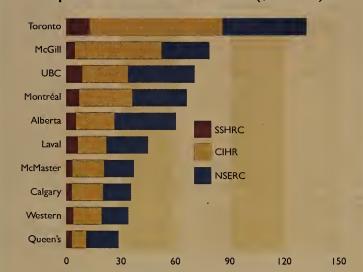
Networks of Centres of Excellence Automobile of the 21st Century Canadian Arthritis Network (CAN) Canadian Genetic Diseases Network Canadian Institute for Photonic Innovation Canadian Institute for Telecommunications Research Canadian Language & Literacy Res Network (CLLRNet) Canadian Network for Vaccines and **Immunotherapeutics** (CANVAC) Canadian Stroke Network Canadian Water Geomatics for Informed Decisions (GEOIDE) Health Evidence Application and Linkage Network (HEALNet) Institute for Robotics & Intelligent Systems (IRIS) Intelligent Sensing for Innovative Structures (ISIS) Mathematics of Information Technology & Complex Systems (MITACS) Mechanical Wood Pulps Network Micronet Protein Engineering Network (PENCE) Stem Cell Network

TeleLearning Research Network Neurochem Inc. Newfoundland & Labrador Centre for Applied Health Research mont Mining Corporation Nicogen Inc. Nishnawhe Aski Nation NoAB Diagnostics Nobel Biocare Canada Inc. Noranda Technology Centre Norske Skog Tasman Ltd. North Atlantic Treaty Organization Nova Chemicals Corporation Nova Scotia Health Research Foundation

Sustainable Forest

Management Network

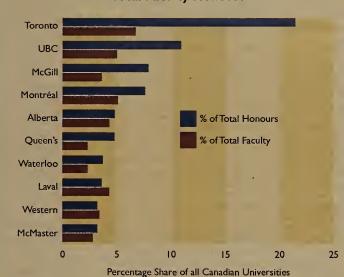
Federal Research Granting Council Payments
Top Canadian Universities 2000-01 (\$ millions)



Source: Councils' annual reports
Figures exclude the Federal Networks of Centres of Excellence and the
Canada Research Chairs
Funding for affiliated and federated institutions is included
Top universities determined by total funding from the three councils in 2000-01
SSHRC: Social Sciences and Humanities Research Council
CIHR: Canadian Institutes of Health Research

NSERC: Natural Sciences and Engineering Research Council

**Total Faculty Honours** 



Sources:Total awards from award announcements from Steacie, Killam, Royal Society, Sloan, Gerhard Herzberg Canada Gold Medal, and Guggenheim, 1980 to 2002. Note that 2002 Steacie Prize and 2002 Gerhard Herzberg Canada Gold Medal were not yet announced at

Total faculty data from Statistics Canada, 2000-01. In cases where these were

unavailable at printing time, 1999-00 data were used. Honours to faculty appointed at affiliated/federated institutions were counted with each relevant university.

The institutions shown belong to the G10 group of research-intensive universities.

Novartis
Pharmaceuticals
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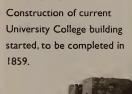
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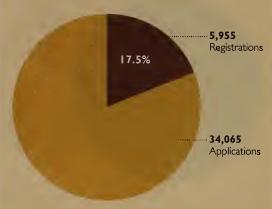
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Kwok Sau Po

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† These organizations have also financially supported the research undertaken by the university.



1861

Anderson Ruffin Abbott receives his medical licence from the Toronto School of Medicine, becoming the first black doctor in Canada.

William A. Farlinger

Annie Fecteau

Madeline M. Field



Hadgraft

Francess G. Halpenny

Mary C. and James

Robert I. Hamilton

Milton Ham

1866

Ronald Kimel

Pia Kleber 3

William Klassen

Oronhyatekha becomes the first Aboriginal Canadian to earn a university diploma, completing a medical degree at U of T.

Raymond E. Mathews

John C. and Margaret

Stanley Maynard

Dipak and Pauline

Evelyn Henderson

Jean C. L. McArthur

McAndrey

Kim McArthur

Doris McCarthy \*

Michèle McCarthy

James C. McCartney

A. E. Matthews

1880

Inaugural issue of the student newspaper, The Varsity. The Varsity

Richard F. Rooney

blished weekly by the Students of to

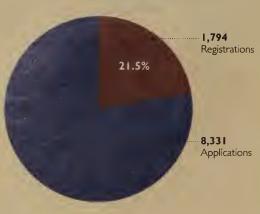
rates apply to the Chairman of the University rates apply to the Chairman of the Business Beard. Address all communications for publication to the Editor-in-Chief.

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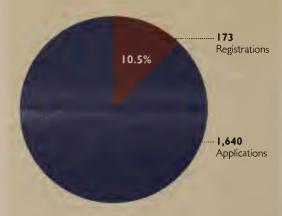
95. Mariant Editors.—J. L. Murray, 95; C. P. M. Stristant Editors.—J. L. Murray, 95; C. P. M. Strigg, 95; P. J. Rebinson, 95; A. R. Clute, 95; V. L. Legg, 97;

suffer yourself to be hanged; but publish your opinions not a right, is to a duty."

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Law
Applications and Registrations
2000-2001



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Hatch Foundation

#### 1883

Augusta Stowe-Gullen, a future advocate for the rights of women, becomes the first female Canadian doctor after graduating from the Toronto School of Medicine.

#### 1884

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Margaret Langley, Mary Bell Bald and Ella Gardiner are admitted to the first co-educational lectures at University College.





#### 1889

Herbert Haultain, inventor of the superpanner and other mining technology, graduates in engineering.



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M. Bernstein

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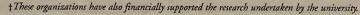
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Kwong-Ming Pearl Chandler \* James and Teresa Chang Robin G. Chariwood Basil R. Cheeseman Florence and Joseph Chiappetta Gemma M. Ching

Mary and John Chipman Frederick Kan Ka Chong Yuh Min Chook Nanda K. Choudhry Susan Christie Elaine Chu Gustav Ciamaga \* E. Ritchie Clark \*

\* These organizations or individuals have also supported the university through donations in kind.

RioCan Real Estate





#### 1895

William Lyon Mackenzie King, arts student and future prime minister of Canada, helps organize a student strike to protest the firing of a popular professor.

Templeton Management



Arnold Aberman

Lorna Jane Abray

Abramsky

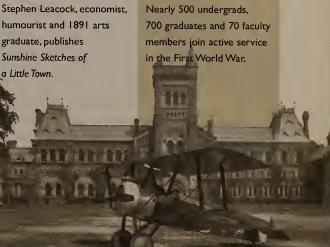
Marcy and Leonard

#### 1897

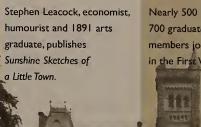
President James Loudon introduces the PhD degree to U of T.

Colin Campbell

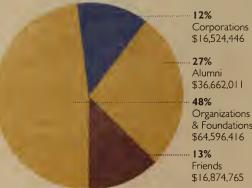
#### 1912



1915



#### **Annual Fundraising Achievement Source of Donations** May 1, 2001 - April 30, 2002 \$134,657,638



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Donald G. Ivev \* Philip and Diana lackson Elizabeth Jacob Christine H. Jain Sushil K. Jain Michael A. S. lewett Alan Ioe Helle-Mai logi lames E. Johnson Michael R. Johnston Carol and Dick Johnston Andrea Jones Bill Jones \* Donald S. Jones \* Eileen M. Jones Paul Jones and Rona Maynard Phyllis lones Wallace Richard lovce \* Derek J.A. Jubb Harold Kalant Michael Kedar and Eva Brian Reeve Kennedy \* Kennedy lames and Norah Kennedy William S. Kennedy Derrick and Marnie de Kerckhove Neil J. Kernaghan Donald Kerr Yvonne P. Keri Lawrence C. Kerslake Edward P. D. and Ann Kerwin Morris K and Miriam Kerzner Elizabeth Kilbourn Crad Kilodney \* Peter Kim J. Michael Kirkland John J. Kirton \* Laurence H. Klotz Ronald Kodam Albertina M. Koetsie H. F. Koetsier Mary Margaret Koreen lacques Kornberg Alfred Koslowski William Kraeme Horace and Elizabeth Naresh Kumar Larry R. Kurtz Allen and Marion Lambert Michael and Hollis Landauer Bernard and Ryna Langer

Robert W. Langford Cynthia and Brian Langille Dennis Lanigan Alan and Martha Ann Latta \* Betty Lau Ching Lau K. C. Laird Laundy Kenneth and lean Laundy Elizabeth Law Brian Lawson Clifford and Joan Lax Robert M. LeBlanc M. Owen Lee Suzanne Leggett Suen Fung Leung Trevor H. Levere Dayle Ann Levine Enid and Kurt Levy H. Lavina A. Lickley David R. Lindsay R. Douglas Lloyd David Locker Donald I, Lococo 3 Lee A Lorch 3 Penny St. Louis Gage and Betty Love Stanley E. Lovell Stephens B. Lowden John W. Lownsbrough Jerry and Joan Lozinski Tin Yick Lung Mary C. Lyne Carl and Barbara Lytollis lames and Constance MacDougall Diana L MacFeeters John R. MacInnis Robert Mackenzie George A. Mackie Sarah MacLean \* Linda E. MacRae Andrea M. Maechie Robert and Kathy Maggisano Dennis W. Magill Gianni Maistrelli Ruth E. Manke Barbara A. Manrique Peter Manson-Smith Timothy C. Marc Colin Hal Marryatt Grant Marshall Wayne Marshall Joan A. and John C. Marshman lames F. and Kathleen E. Martin Elizabeth Mason G. Frank Mathewson

R. B. Matthews Philip O. Maude John T. Mayhall <sup>3</sup> Dave Mazierski \* Boyd McAdam John H. McAndrews loseph B. McArthur lack McAteer Robert I. McBroom Dena McCallum J. Andrea McCart David McCarthy Margaret M. McClelland William C. McDowell William J. and Mary K. McGanity Carol A and Bruce McGillivray Wayne McIlmoyl Hugh D. McKellar Margaret E. McKelvey \* Iulia M. McLaughlin Mark McLean Donald McLeod \* Wallace and Elizabeth Mrl end \* lim McMahon Kathleen McMorrow Peter A. McNabb Paula and Robert **McNutt** Robert McQuillan Donna I. McRitchie Howard Mednick Noah and Rochelle Maler \* Isabel Mendizaba Mary Mershein Detlef Mertins Iohanna L. Metcalf Murray R. Metcalfe Lionel Metrick Frederick Robert Meyer Hugh J. Middleton Eric J. Miglin Mary Anne and W. O. Chris Miller lane Millgate \* Frank G. Milligan Donald S. Mills Ralph S. Mills Milne Family Elliott Arthur Milstein Thomas Minehan Anthony Miniaci Donald E. Moggridge \* The Honourable Hartland de M. Molson Arthur B. B. Moore Carole R. Moore David and Ioan Moore I. Mavor Moore Keith L and Marion

Geoffrey Matthews

\* These organizations or individuals have also supported the university through donations in kind.

† These organizations have also financially supported the research undertaken by the university.



1923

U of T researchers John Mcleod and Frederick Banting win the Nobel Prize for Medicine for their development of insulin as a treatment for diabetes. Banting shared his prize with Charles Best (the two are pictured left).

1927

Edward S. Rogers Sr., an engineering alumnus, starts the world's first all electric radio station

1928

The Varsity Grads, a hockey team made up of U of T alumni, win gold at the Olympics in St. Moritz, Switzerland.



Paul Mansell Moore Kenneth and Barbara Morgan Norbert and Patricia Morgenster Walter Morris Hugh Whitney Morrison \* Peter Munsche A. June Murdoch Harri Murk \* John Murnaghan Daniel J. Murphy Sherrie C. Murphy Johanne Myles Yosef Nahmias \* Gerald Nash Satbir S. Neelam David and Mary Neelands \* Anne and James Nethercott Thomas R. Nettleton Irmgard Neumann Grace K. Nicholls Paul and Nancy Nickle Peter C. S. Nicoll 3 Donald K. Norris Mark Noskiewicz and Heather Floyd Dora E. Noy Mark and Edith Mary Catherine T. O'Brien Richard Ian Ogilvie Darrell Ogilvie-Harris Edward H. and lean C (Meraw) O'Keefe Brian and Anneliese O'Malley Geraldine O'Meara Erin O'Neill-Berg and Mariel P O'Neill-Karch and Pierre Karch \* loyce and Ben Orenstein Desmond and Pamela O'Rorke Earl Orser W. Niels F. Ortved William J. H. Ostrander Stephen A. Otto \* Willard G. Oxtoby \* Robert and Dorothea Painter \* Barbara D. Palmer and John M. Wasson Ulysse E. Pare Chong-Sue and Hai-Kyung Park \* Kathleen Thelma Parker R. Brian Parker Tom Parker \*

Joan W. Parkes Donald W. Parkinson H. G. Campbell Parsons David G. Partridge \* Lorraine Paterson Peter R. Paterson Barbara A. Pathy, Carolyn M. Pathy and Diane Pathy Barbara A. Pathy Teresa Patullo-Bosa Jocelyn J. Paul \* Winsor and Ruth Ann Walter Peters Patrick Pichette & Tamar Pichette (Smith) Lloyd Montgomery Pidgeon Aileen M. Piper \* Sheila Pollock P. Porter Robert I. Potts Cyril H. Powles \* mala Prabhakar Siliva Prii Charles Principe Douglas Pringle Angelina T. Prokich Joel Prussky 3 J. D. and B. J. Pudden Sidney B. Radomski J. A. Raftis Stephen James Ralls Doreen Rao \* Ritendra Rav David M. Rayside \* Margaret E. Read Paul Read and Felicity Smith Jerry Reckless Flavia C. Redelmeier William C. Reeve Robert R. Reisz Brian P Reinh Ernest John Revell \* Ruth Reynolds John and Elizabeth Rhind Douglas Richards Larry Wayne Richards \* Robin R. Richards Lewis J. Richardson \* Thomas A. Richardson Lesley Riedstra and Rian John and Mary Louise Riley Herald L. Ritch Donald B, Rix Edward D. Roberts Michael Allan Robinette Andrew M. Robinson Isobel M. Robinson E.A. Peter Robinson

Allen Angus Rodgers John S. Rodway Donald H. Rogers Stephen J. Rogers Wendy L Rolph \* Patricia Romans T. Jain Ronald David S. Rootman Irving and Helen Rosen Walter W. Rosser Ruth Wolfish Rotman Wally Roueche and Connie Ida Roveto John and Ethel Rumball Erika Rummel \* O. John C. Runnalls Aubrey and Nancy Russell E. J. Russell Peter H. Russell \* lames T. Rutka F. Michah Rynor \* Elizabeth Anne Sabiston \* Harold R. Saddington Donald R. Sadoway A. Edward Safarian \* Steven 1. Sandoz Andrew Sarlos Louis Savlov Ezra and Ann Schabas \* Victor and Sandi Ricky K. Schachter Vernon B. Schneider Walter J. Schroeder Blair and Carol Seaborn Geoffrey B. Seaborn \* Victor M. Seabrook lack A. and Margaret Seed John V. Selby Magda J. Seydegart and Edward T. Jackson Rae Shapiro Robert I Sharpe \* Richard A. Shaw Virginia L. Shaw Brigitte Shim and Howard Sutcliffe Jeffrey C. Shin Patrick Shiu Kin-Ying Ron Shuebrook Saul Sidlofsky Eugene Siklos Robert L Sillcox L. Robert Silverston Katherine A. Siminovitch Louis Siminovitch Judith L. Simmonds Donald A. Sinclair

John E. and Gayle Smallbridge Annie Smith Derek A. Smith L Lois and Leonard Snelling Richard Soberman Hyman and Ruth Soloway John and Gisela Mario C. Sommer \* Kara Spence Mickey and Annette Convey Spillane Rob and Marilyn Spindler Ernest Spratt Miriam H. Squires F. Gordon Stanley \* Taylor Statter Barbara Stein Robert A. Stevens Donald J. Stewart Duncan J. Stewart John David Stewart Boris Stoicheff \* Peter Strangway Kate Subak Philip Sullivan Robert and Peggy Sum Winnie Sung C. Burke Swar Brenda A. Sweeney John H. and Constance A. Sword David A. Szalav Andras Z. G. Szandtner Leontyna Szmelter Paul K. Takahashi Wayne R. Tanner John (Jay) G. Tapp Charles H. Tator 1. Stephen Tatrallyay Allan S. Tauber George S. Taylor lan and Kathleen Taylor lames G. C. Templeton Joseph L. J. Tersigni Kamal Thapar Stan Thomas R. Paul Thompson Helen McConkey Thomson John W. Thomson Nancy G. Thomson Wayne D. Thornbrough lames Tirnmins

Anita Slone

**Tomlinson** Winter? Carol and David Wishart Calvin Torneck \* Ed Tossell William C. Wonders John Trachtenberg Barton S. N. Wong Thaddeus J. Trenn \* William Wong J.A. Trist Lawrence W. Woodhead Gwenn R. Trout John Tsihlias Frank W. Woods Gregory G. Turnbull Rosalyn Wosnick David L.Turner lames G. Wright Peter M.Turner Nigel Wright Vernon G.Turner William Wright \* M. Tymianski Henry Wu Michael Ukas \* lay S. Wunder Walter P. Unger Lynne Wynick \* David R. Urbach J. R. Wynnyckyj \* Peter Van Schaik Adrienne Yamaguchi Henry T. Vehoved Man-Chiu Yans Michael Vertin and Cindy and Paul Yelle Margaret O'Gara \* Alain Yip Cecil C.Yip Sheila and Victor Vierin John Voss and June Li Laetitia Yu Kit-Wai Stephen M. Waddams \* Lilian Yuan \* James P. Waddell Eberhard and Jane John and Margie Wagner Zeidler To Chan Wai Yee and To Robert A. Zeldin Yu Lim Boris Zerafa \* Henry Waks Armand Zini Conrad Walker George A. Zuckerman David Walker Stelio Zupancich John C. Walker

Frederick and Joan

Hazel Campbell

Olwen Walker

Anne Walters \*

Paul B. Walters

Flora M Ward

W. E. Ward \*

Gordon Watson

Alex R. Waugh

Christopher Wallace

Germaine Warkentin 3

Mary-Margaret Webb

John Harvey Webster

Bruce M. Westwood

Margaret L.Whyte

Donald and Gloria

Blossom Wigdor

J. Scott Wilkie

M. Isabel Wilks

Nancy Williams

William G. Williams

Donald C Wilson

Dorothy J. Wilson

Gordon A. Wilson

Milton T. Wilson <sup>3</sup>

Milton Winberg \*

Thomas A. Wilson \*

Thomas and Elizabeth

George Wilson

Mary F. Williamson \*

Bill Williams

William P. Wilder

Wiebe \*

Lilian and Gordon Wells

101496S Ontario Inc. 3M Canada Company S60962 Alberta Limited A&P Drug Mart Limited Action Grosse Ille Addiction Research Foundation Advantage Car & Truck Rentals \* Affinity Investments AGF Management Limited Ahlstrom Machinery Alcon Research Limited Allelix Biopharmaceuticals Inc Altamira Amadeus Capital Corporation American Marketing International Network, in Memory of Alan Ross Purves Architects Alliance ASME Association of Administrative Assistants Atlantic Packaging Products Ltd. The Augustinians

Province of St. Joseph

Avedis Zildjian Company

Avery Dennison

The Campaign
May 1, 1995 - April 30, 2002
\$874,444,714\*

\$74,809,441
Realized
Planned Gifts

\$98,852,302
Gifts-in-kind

\$700,782,971
Gifts & Pledges

\*The Campaign progress of the Federated Universities
of St. Michael's, Trinity and Victoria is included.

Bechtel Canada Co. The Bechtel Foundation of Canada Beiersdorf North America Inc. Belae Brands Canada Company Bell Mobility Inc. International Inc The Benjamin Foundation Benjamin Moore & Company The Bennett Family Foundation Benson Steel Limited Bird On A Wire Networks Bloorview MacMillan Children's Foundation Boart Longyear Canada Inc. Boehringer Ingelheim (Canada) Ltd., Bio-Mega Research Division Boland Foundation Borden Ladner Gervais LLP BPO Properties Ltd. The Rudolph Peter Bratty Family Foundation

The Bridge Street United Church Foundation Bristol-Myers Squibb Clairol Bristol-Myers Squibb Company Bristol-Myers Squibb/Linson Pharma The Samuel and Saidye Bronfman Family Foundation Burnac Corporation Burns Fry Limited Butterworths Canada Limited C. D. Sonter Management Inc The Canada Council † Canada Post Canadian Association of Chain Drug Stores Canadian Drug Manufacturers Association † Canadian Federation of University Women -North Toronto Canadian Friends of Tel Aviv University Canadian Health Services Research Foundation †

Canadian Institute of Mining, Metallurgy and Canadian National Company Canadian Orthodontic Labs Ltd. The Cdn. Soc. of Atherosclerosis Thrombosis & Vascular Biology Canadian Society of Plastic Surgeons Carruthers Shaw and Partners Limited Architects Carswell, A Division of Thomson Canada Limited \* Carter-Horner Inc Carter-Wallace Inc. The Catholic Women's League of Canada Centre for Mennonite Brethren Studies Christie Brown & Co. Ltd. CIBA Vision Canada Inc. - Ophthalmics Business Unit CIM - Toronto Branch Citibank Canada City of Toronto Equal Opportunity Division

\* These organizations or individuals have also supported the university through donations in kind.

†These organizations have also financially supported the research undertaken by the university.

#### 1930

Frederick Tisdall, Theodore Drake and Alan Brown of the Faculty of Medicine announce the creation of the infant cereal Pablum.

#### 1935

Ann Robson \*

U of T physicist John
McLennan is knighted for
outstanding accomplishments
in research, including the
discovery of cosmic rays.

Pamela and Irwin Singer

Wilfred V. Sinitsin

Misha Sivan



James Henry Ting

L. Douglas Todgharn

Claudio Tocchio

1936

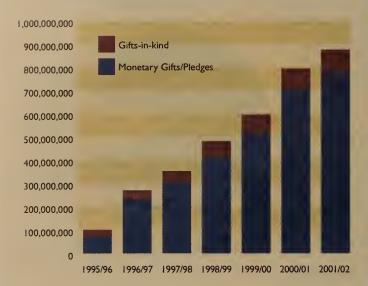
Renowned astronomer
Helen Hogg begins her career
as a research assistant at the
David Dunlap Observatory.



#### 1936

Norman Bethune, U of T medical student and later a hero of the People's Republic of China, organizes the first mobile blood transfusion unit in Spain.

#### Campaign Cumulative Totals 1995/1996 to 2001/2002 (\$ millions) as at April 30, 2002



The Campaign progress of the Federated Universities of St. Michael's, Trinity and Victoria is included

Clarica Claude Cormier Paysagistes Inc The Cloverleaf Foundation † Club Guardiaregia Coca-Cola Bottling Company Maurice Cody Research Trust Connor, Clark & Lunn Investment Management Ltd. Consulate of India Council of Ontario Universities Counsel Corporation Co. Credit Suisse First Boston The Crown and Bridge Study Club (of the Academy of Dentistry of Toronto) Curtain Call Cyanamid Canada Inc. Daco Manufacturing Ltd. Dalton Chemical Laboratories Incorporated

William and Arlene Daniels Charitable The Davies Charitable Foundation Adelle and Paul Deacon Nanton Fund, part of the portfolio of the Toronto Community Foundation Del Labs (Canada) Inc. DELZOTTO, ZORZI Department of Canadian Heritage † Dominion Gallery Montreal Ken Dryden Scholarships Dufflet Pastries Inc. Duracell Dynamic Mutual Funds Early English Text Society Eckler Partners Limited Elderwood Foundation The Duke Ellington Society Chapter 40 **EMI Resources Limited** Encore Sales Energizer Canada Inc.

Engineering Alumni Association Communications Inc Extendicare Inc Frank Faubert Tribute Dinner Forrec Limited Four Seasons Hotels and Resorts The Harold G. Fox Education Fund Franciscan Province of the Immaculate Conception The Albert and Nancy Friedberg Foundation FRUMCOR Investments Limited Fujisawa Canada Inc. George R. Gardiner Foundation Genest Murray Georgian Bay Forest Products Ltd. Global Knowledge Foundation Gluskin Sheff + Associates Charitable

Foundation

\* These organizations or individuals have also supported the university through donations in kind.

Goodman and Carr Government of Canada † Greater Toronto Airports Authority Green Shield Canada Grenville Radiology Groia & Company Audrey and Martin Gruss Foundation Gryphon Investment Guitar Society of Haney Hunt & Rowden Ltd Hariri Pontarini Architects Health Research Foundation The Hermant Family Foundation Hidden Creek Industries Ltd. Anthony Y.W. Ho Hoechst Marion Roussel Canada Honda Canada Inc.

Horton CBI Ltd Hudson's Bay Company Hungarian-Canadian Chamber of Commerce Ideas Canada Foundation IFFF Canada - Toronto Section IEEE Canadian Foundation Indo-Canadian Advisory Group ING Direct Institute of the Blessed Virgin Mary Institution of Electrical Engineers - Toronto Centre Interfond International Centre for Human Rights Irving Tissue Company Inc Italian-Canadian Immigrant Commemorative Association Ivesuz Investments Ltd. The Charles H. Ivev Foundation Jayfran Enterprises Ltd. Jewish Students' Union Kaneka Corporation Kendall/Sherwood-Davis & Geck Kendall Confah Retail Group Kimberly-Clark Inc. Kinepolis Group King Khaled Eye Specialist Hospital Kiwanis Club of Manotick Knoll Pharma Inc Kohl & Frisch Limited The KPMG Foundation Kraft Foods, Inc. † Ladner Downs **Barristers & Solicitors** Lang Michener Lavis Fine Arts The Margaret Jean Leppington Foundation Likro Precision Limited Long & McQuade Limited Lufthansa German Airlines Lundbeck Canada Incorporated MacLennan Jaunkains Miller Architects

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The Alice and Murray Maitland Foundation Masaryk Memorial Institute Incorporated Foundation 1 McCain Foundation McCarthy Tetrault Foundation MCCOE Notes Ltd. McKinsey & Company MDC Corporation Inc. Medical Mart Meighen Demers The Mennonite Heritage Mennonite Historical Society of British Columbia Milus Bollenberghe Topps Mineralogical Association of Canada Mississauga Board of and Businesses Mitchell Madison Group Mitsubishi Canada Ltd. The Molson Companies Limited Montgomery Sisam Associates Inc. Architects The Monument Trust J. P. Morgan Canada Nabisco Ltd Nesbitt Burns Inc. Netron Inc. Nevitte Research Inc. Nice-Pak Products, Inc. Nivel Inc. Noma Appliance and Electronics NPS Services LC Nu Sigma Nu Fraternity Nu-Life Nutrition Ltd. OCLIFA Ontario Association of Architects Ontario Association of Landscape Architects Ontario Medical Association Ontario Professional Engineers - Foundation for Education Optenia Inc. Ormsby Research Corporation Ortho-McNeil Inc.\* Parmalat Canada Parsons Behle & Latimer Passionist Community of Canada

Pfizer Global Research and Development Pharma Plus Drugmarts Ltd. Mimi and Sam Pollock Foundation PowerLung Inc Prairie Peers Procon Mining and Tunnelling Ltd Pro-Di Bella Cancer Research and Support Group Prudential Securities Quality Home Products **RBC** Technology Ventures Inc Reckitt and Benckiser Inc Richards Packaging Inc. Rio Can Financial Services RJK Resources Limited Robin Hood MultiFoods Inc. † Roche Vitamins Canada Inc. Rotary Club of Mississauga - Airport The Royal Architectural Institute of Canada Royal College of Dental Surgeons of Ontario † Ruv Management Rx&D Canada's Research-Based Pharmaceutical SAP Canada Incorporated Scott Paper Limited † The Emperor Sergio Memorial Scholarship Shaare Zedek Medical Sharp Electronics of Canada Ltd. Sisters of St. Joseph Sisters of St. Joseph in Toronto SKF Canada Limited SNC-Lavalin Group Inc The Sobey Art Foundation The Society of Management Accountants of Ontario Jean M. Southam Foundation St. Michael's/Wellesley Psychiatric Associates Sterling Pulp Chemicals

Sun Media Corporation The Wiegand Memorial Szechenyi Society Inc. Charitable Fund, part of the portfolio of the Toronto Community Foundation TBWA Chiat Day TD Canada Trust Friends of the Environment Foundation Ted Thompson Management Limited Teplitsky Colson Tippet Foundation Toronto Academy of Dentistry The Toronto Hong Kong Lions Club The Toronto Hong Kong Lions Foundation The Toronto Hospital -Department of Clinical Toronto Notes - McCqe 2001 Review Notes Towers Perrin Inc. Tracon Industries Corporation Triathlon Leasing Inc. AIM Funds Trimark Investments Trinity Club Ottawa Tye-Sil Corp. Ltd. Tzu-Chi Foundation of Canada Unicef - Jakarta University Masonic Lodge Awards Fund University of Pittsburgh University of St. Michael's College Trinity College at the University of Toronto University of Toronto Faculty Association Nu Sigma Nu Medical Fraternity (Chi Chapter) William H. Vanderbilt Trust Van-Rob Stampings Inc Vered Foundation Victoria University Vinylgraphics Custom Sign Centres Vita Health Products Inc Wellington Square United Church Westhall Investments Ltd. Whitshed Holdings

Foundation Inc The Wolseley Foundation Women in Capital Markets Women's Art Association of Canada The lames Shaver Woodsworth Homestead Sam Yakubowicz Family Foundation York Uniforms Ltd Yorkton Securities Incorporated The Youssef-Warren Foundation Numerous Anonymous \$5,000 to \$9,999 Mort and Shirley Carol L. and Albert Abugov Art Acharya G. Chalmers Adams \* Lee Adamson Kim M. Adamson-Sharpe Susan M. Addario and David R. Draper Leon Adomavicius Asheesh Advani Sophia M. Ahmed Johan L. Aitken Melanie L. Aitken Flie Airam David Martin Aldea Deborah M. Alexander Ruth M. Alexander Douglas S. Allen Douglas Allen Benjamin Alman Norman Altstedter Paul H. Ambrose Dimitri John Anastakis Farel Anderson John Anderson Kathleen Anderson Norma Andrews Bram and Bluma Appel Eric B. Appleby John Craig Applegath Eric P. Apps Marvin Arbuck E. Kay Armatage Ann Armstrong Doris A. Arnold Hugh J. Arnold Stephen V. Arnold William G. Arnold John M. Arnott

† These organizations have also financially supported the research undertaken by the university.

#### 1938

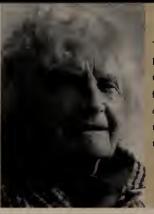
A team of researchers in the Department of Physics, including Eli Franklin Burton and James Hillier, builds the first electron microscope in North America



#### 1942

The anti-gravity suit, developed by Wilbur Franks of the Banting and Best Institute, is used by Royal Navy aircraft in a landing in North Africa.

Pastway Planing Limited



Limited †

Students Law Society

#### 1944

Two-time graduate Dorothy Livesay receives the Governor General's Award for her poetry collection Day and Night. Another collection, Poems for People, wins the award in 1947.

Abraham Aronowicz

Kathleen Arpin Robert G. and Elizabeth Arsenault Murray Asch Sidney Aster 3 Don Avery James M. Babcock Walter Bachinski \* Edward and Jocelyn Badovinac Melanie G Railey Andrew D. Baines John Baic Edward L Baker Jean A. Ballinger Frieda Derdeyn Bambas G. M. Bancroft W. Donald Bark Peter F. Barker Milton J. and Shirley Barry Kenneth R. and Gillian C. Bartlett \* Alice Bastedo Thomas G. Bastedo Derek A. Bate Paul and Sally Bates Michael John Baur Randail Rayandail Colin Bayliss \* lim and lane Bayly Ionathan E. Bays Chester D. Beatty James D. and Susan Elliott Beatty David William Roy Bell and Gwendolyn Bell H. Bernice Bell Lawrence Rell Thomas A. B. Bell Walter E. Bell David Esmond Belvea Clara and John Bender Sheldon Dean Benner Diana L Bennett Gale Howard A. Bennett ludith Berg Howard and Carol Bernick Tamara Bernstein \* Henry Berry Helen Best Gopal Bhatnagai Wojciech L. Białkowski Sander Biderman Wanda A C Rielawski William J. Biggar Ann Birch C.W.D. Birchall George Bird Monica E. Biringer Gail (Craig) Birnie \* Claude T. Bissell

Harris J. and Ann (Blain) Thomas H. Biarnason Paul Francis Black Robert M. Black William D. Black Mary-Jill Blackman David and Anita Blackwood \* William I. Blainey Rarbara Anita Blake John Blanchard I. Barrie Blanshard I.W. Michael and Elizabeth J. Bliss William and Marian Aldo Dominic Boccia John C. Bodwell Earl R. Bogoch Archibald W Bond Margaret Isabel Bond Woody Borenstein Douglas Bosomworth Robert and Gail Corbett Gerald F. Boulet Elizabeth M. Bowden John D. Bowden William and Martha lustin C. Bowler Stephen W. Bowman I. Gilbert Bowness T. Rodney H. Box Richard J. G. Boxe Katherine Anne Boyd David Boyd-Thomas Robert W. Boyle Barry Brace John H. Brace Helen Bradfield Sharon and Iim Bradley Charles G. and Alice I. Bragg E. Marion Brancaccio Keren Sophia Brathwaite Donna M. Brode lames D. B. Bromley Helmut G. Brosz Al G. Brown Alexander J. Brown Dudley G. Brown . Helen and David W. Marion E. Brown \* Robert S. Brown Aubrey Browne John D. and Joan Brownlie Kathleen Bruce-Robertson 3 John W. P. Bryan Rorke B. Bryan \* Howard W. Buchner William Francis Buckley

Bruce and Emily Burgetz Ken Burke M. Elizabeth Burke-Gaffney Edward and Rita Bush Jack H. Bush and M. Ian Bush David Butler Helen Butler Kennoth R Rutler Patrick N. Byrne John F. X. Callahan Kevin I. Calzonetti Donald M. Cameron John C. Cameron Wendy Cameron David Campbell Mona Campbell Robin Campbell Ross Campbell \* Lee Cantor Donald H. Carlisle Ted and Janice Carolin Brian R. Carr Douglas A. Carrick J. Olga Case Alfie P. Cevraini John R. G. Challis Andrew Hee Chan Benjamin Chan Hung Sun Chan Michael Man-Fai Chan Ascot Chung-Fai Chang Michael and Barbara Charles W. Bruce Charles Louis Charpentie John and Vera Chau Peter Chauvin Mable Cheng Peter G. Cheng Rudy Darius Chiarandini Frank Ching Aubrey Choi Eugene J. and Helen J. Norma Wendy Chou Kirby Chow George Christakis Helen Christo Priscilla Ching Chung Virginia Cirocco John and Lynn Clappison Brian G. Clark Karen Clark Charles F. Clark Glenn R. Clark Lyn and Ian M. Clark E.G. Clarke Paul Clubbe Alec K. Clute

Joseph James Colangelo John G. Coles Kennedy J. L. Coles Teça P. (Court) Coles Maria and Terry Collier Cecil and lean (Hamilton) Collins-Williams Graham B. R. Collis Lionel T. Colman Julia Conn Watt Paula Connell Thomas Connell J. Adam Conyers Edward B. Cook John A. Cook C. F. Alexander Cooper Louis Cooper 3 W. Jack Cooper W. I. M. Copeland Abraham and Beth Paul Barry Cotter David Cowan lames Cowan \* William A. and Sheila Cowan H. S. M. Coxeter Collin M. Craig M.A. Craig W. Hardy Craig Peter O. Crassweller John Wilbur Craven C. Douglas Crawford George B. Crawford Terry L. Creighton Anne Marie Crescenzi I.Willison Crichton John Crispo Tony J. Crncich Donna Crossan Mimi G. Cruickshank William Cruse Robert M. Culbert Ruth E. Culliford lessie S. Current Carole Curtis Robert James and Jacqueline Cusimano Stephanie Hansen Cuskley Margaret Ann Cuthbert George H. Cuthbertson William S.A. Dale Helen A. Daley G. Ross Dance Paul L. Dandenc

Fraser and Jennifer

Code Mary E. Code

Ion S. Cohen

Steven Cohen

Elizabeth Dashwood \* Gwen M. Davenport Tirone David In Memory of Geoffrey M. Davies Irma and Richard Davies John A. Davies Larry Davies Michael Norman Davies Deborah L Davis Douglas A. C. Davis Harold Bruce Davis leanie A. Davis John A. Dawson Arthur C. Dayfoot Paul M. Daykin Donald Robins De Laporte William De Laurentis Ronald De Sousa Thomas P Dea John S. Deacon Alan V. Dean Bruce Dean J. Homer Dean \* Elsie A. Del Bianco \* Lloyd Delaney Lucien P. Delean Susan Delean and Larry Norris Frank DeLuca Reuben R. Dennis Ken Dent \* Sherwin Desser William A. Devereaux Joseph A. Devine Janet Elizabeth Dewan Susan Dewhirst Thomas DeWolf Mandeep S. Dhillor Barbara Dick and Malcolm Burrows Nancy Dignam Thomas A. Dillon David A. Diltz John G. Dimond William B. Dingwall Michael A. Disney Sarma R. Dittakavi Sergine (Dosne) Dixon Walter Dobrovolsky

David R. Dodds

Eric W. Domville \*

Edward L Donegan

Dorothy J. Doolittle

Kristine Drakich

Howard Alexander

I. Dubinsky and A.

Marko D. M. Duic

J. Bruce Duncan

W. Gordon Duncan

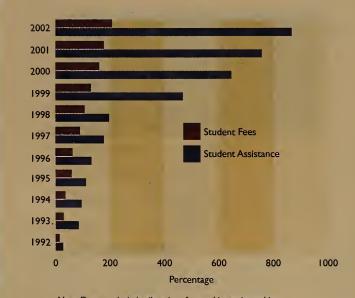
W.T. Erskine Duncan

Wertman

Lorraine Drdul

Dube

#### Growth in Student Aid Versus Growth in Student Fees 1992-2002



Note: Does not include allocations for teaching assistantships

Peter D. Dungan J. Bruce Dunlop Mary and Bruce Dunlop Thomas J. Dunne Sean F. Dunphy Larry Durr \* Philip Carter and Maria Dyck Pamela and Brian Eden Moray and Sally Edwards C. Harold Eisler Amelia and Keith-Ellis Brigid Elson Mark Erwin Eric Etchen \* Nigel J. Etherington Bernard Etkin M. Gwynneth Evans Neil Everett Ronald Fabbro Hope Fairley Catherine A. Fallis \* Lorne R. Farquhar Robert Farquharson Fred C. Farr \* Grant Angus Farrow Michael A. Farrugia

Lyle S. Fauteux Christopher Feindel Victor Feldbrill Albert P. Fell Aaron and Patricia Fenton Lorand and Veronica Fenyves George Fetherling \* Andrew W. Filipiuk Robert M. Filler David G. Findlay Jack M. Fine \* Jeffrey Fineberg Abraham and Geula Finkel loel A. Finkelstein Donald E Finlay Eleanor M. Finlayson Keith Finnie Gale Fisher Florence FitzGerald Janet E. FitzGerald \* Magnus J. Fjalldal Gerald A. Flaherty David and Yvonne Fleck I. F. Ross Fleming Patricia Fleming Betty M. Flint ' Olga Flowers

Steven Fong Ronald and Sybil Foote Jane A. Ford Michael Ford M. P. Forestell and D. E. Forestell Lynd Forguson \* G. David Forney Christopher Forrest Warren D. Forrester Joyce Forster Rodney S. Fowler Douglas Fox \* Norman D. Fox Sydney Gerald Frankfort Lynda A. H. Franklin M. Constance Fraser Brian D. Freeland \* Eric Freeman Arnis Freiberg Declan French Esther Friede Martin L Friedland \* Joseph Friedlich Shimon Friedman Colin D Furness William P. J. Gagnon John C. Gallagher Patrick Gallois \*

Thomas and Alice Flynn

Gallop Ruth and Richard Gallop Charles T. P. Galloway Sydney and Anna Gangbar Amit Garg George Garland Gayle Garlock 3 John Gay Mary L Gemmill Michael Paul Gendron Peter J. George Alan and Margaret Gibson lan Gibson Robert Gibson I. S. (Steve) Gilchrist Joseph F. Gill Drew Gillanders Garth M. Girvan Alfreda Glass Bernard Glazier Diana Goad J. Lawrence Goad Bert Godfrey Peter Gold Bryna Goldberg Gary Goldthorpe

Peter and Marie-Paul

\* These organizations or individuals have also supported the university through donations in kind.

James S. Coatsworth

Anne M. Cobban

nations in kind. †These organizations have also financially supported the research undertaken by the university.



1945

Ten thousand students and alumni serve in the Second World War. 1951

Andrew Danson

Michael Daren

Gail Darling

Lois Darroch

Wilfred Bigelow of the Faculty of Medicine helps develop the first electronic pacemaker.



John Fasken

Margaret Falkner

1951

Harold Innis of the Department of Political Economy publishes *The Bias* of *Communication* and helps establish the field of communications theory.

1957

English professor Northrop Frye publishes Anatomy of Criticism, his influential treatise on literary symbolism.

#### Class of '99\* Mean Employment Rate of Graduates Two Years After Graduation



st Graduates from bachelor's or first professional degree programs Source: Council of Ontario Universities

Gertrude Gollish John M. Goodings Crawford Gordon Olive L Gordon lan R. Graham Michael and Nancy Graham William H. Graham Alan and Cynthia Grant John W. Grant Cyril Grasso Robert S. Gray \* Thomas E. Gray Duncan Green I. Fred Green lack and Anna Greenblatt Brian H. Greenspan Edward L Greenspan Linda F. Greenwood William N. Greer William John and Imogene Gregg Wilfrid P. Gregory Anthony J. E. Grey N. David Greyson Patrick V. B. Grieve John W. F. Griffin P. Allan Griffin Tim and Darka Griffin Bruce Griffith Aharon Grinbaum Warren Grove Camilla and Cheste Gryski Harry E. Gunning

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Winnifred A. Herington Garrett Herman Lawrence L. and Beatrice Herman John S. and Catherine E. Heron Margaret M. Higgins V. J. Higgins Lauri I. Hiivala Angela Hildvard Alan R. and Susanne Hill Daniel G. Hill Douglas R. Hill W. Alan Hill James and Rebecco Hilton R Christopher Hinde Samuel J. Hirsch Alan B. Hockin Liz Hoffman Theo Hofmann Edward T. Hoganson David Hogg Robert W. Hoke John S. Holladay Emmy and Walter Homburger Christopher and Karla Honey Elizabeth B. Hope Noble Hori Dorothy Horn \* Cornelia Schuh and Michiel Horn Mary M. and C. Roy Horney

Dennis E. Houghton

lan G. M. Howey Audrey Hozack Martin Hubbes Kathleen Huckabon Steven K. Hudson Andrew Hughes \* F. Norman Hughes Ivor M. Hughes Karen L. Hughes Kathleen E. Hull 3 A. Murray Hunt J. Martin and Judith Hunter John J. L. Hunter William L. E. Huth Patrick Hwang James J. Hyland George A. and Barbara V. R. Hylands Masanori Ichise Robert Inksater Kenneth W. Inkster Ka-Biu Ip Howard Irving Barbara E. Irwii Grace L Irwin Richard and Donna Ivey Tom Iwanowski Helen (Albright) Jackson Robin and Heather lackson \* Nasir Jaffer Raj K. Jain Surinder Jain Kaz Jana Hudson N. Janisch Robert S. Jaques

Marion Kaye Joachim Kingsley Joblin Wing Joe Jon R. Johnson S. Ross Johnson Charles C. Johnston leremy G. N. Johnston K. Wavne Johnston Sandra A. and David Johnston Donald P. Iones Richard Jones Roberta Jong Jean H. G. Joy \* Christophe Alexander Iyu Lorraine Kaake Sidney M. Kadish Peter G. Kalman Viiu Kanep 3 Jon J. Kanitz Howard L Kaplan Allen Karp Edward F. Kassel Timothy I. Kastelio Benjamin E. and Estelle A. Creed Kaufman Nitin S. Kawale Kenneth Kay Benjamin G. Kayfetz \* Peter Kearney and Katrin Turu onathan M. Kearns \* Nancy Keays Patrick I. Keenan Brendan G.A. Kelly \* Jill Kelsall and Jeremy Oliver A. E.T. Kemp Arthur P. Kennedy Brian E. Kennedy Paul G. Kennedy Ross L Kennedy Shafique Keshavje Katherine D. Ketchum Gordon L. Keves Robert H. Kidd Lloyd Sherman King Kathleen King E. Douglas Kingsbury Ray Kinoshita Marnie Kinsley Edwin S. Kirkland John Kirkness 3 David H.W. Kirkwood John Kirkwood Kevin I. Kirlev Susan Kitchell Bill Kitchen Margaret Jean Kitchen

Edward S. larvis

Margaret A. Jarvis

Peter Jensen and Sandra

Peter Klavora Victor J. Klopp John Knebel and Marge Watters Richard Komorowski Arthur Konvisei Judy Kopelow Marianna Korman Fric Koslowski Patricia Kraemer Ubby Krakauer Ron and Helen Kramer Michael Krashinsky Wanda J. K. Krane Hans J. Kreder Leorah Kroyanke Victor Krukli Ulrich and Carol Krull Sigmund Gerald Kuperstein Paul and Rasa Kuras Eva Kushner James S. Kyles Barbara Lace Manjinder S. Lalh Philippe V. Lalonde David Lam Anne Lancashire \* R. Brian Land \* Martin E Landmann 3 Terry Landry Byron G. Lane David Lang Nancy Lang Thomas J. F. Lang Colm Lanigan E. L. Lansdown nnifer D. Lanthie Douglas and Ethel Lapp William E. Large Margaret S. Large-Cardoso Richard B. Larson lohn B. Laskin Mary W. Laurence Peter Daniel Lauwers Calvin Law Ross Douglas and Ruth Lawrence Laurie M. Lawson A. L. Leboeuf Mark Lebovic Scott W. Leckie John C. L. Lee Joseph Arthur Lee Kai-Choi Lap Cheung Lee and Maria Lee In memory of Lucille S. S. Lee Mary Lee Wah Hung Lee William E. Lee \*

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Douglas Leeies

Terry Maguire Michael B. C. Mah Nizar N. Mahomed Ellen N. Mak Ted Maksimowsk Kenneth D. and Sandra Ronald D. Manes Marg and Ralph Manktelow Katherine and Paul Manley John M. Mansell Edith G. Marchant Sandra L Mark \* Frank Marrocco Michael and Rand lanet Marsh John C. Martin Santo Martini Anthony Mason Ioan Mason Mary Willan Mason William J.A. Mason Ruth Matisko lames N. Matthews Victoria Matthews Mary McDougall Maude John Maxwell William May Dipak and Pauline M. H. Mazumdar Douglas A. McAuley I.A. McCallum Derek McCammond Leighton W. McCarthy Dorothy McComb Alen M. McCombie Ian McConnachie Roxanne E. McCormick Maurice McCrea Don McCrossan Muriel G. McCuaig Ruth W. McCuaig Ernest A. McCulloch \* Donald F. McDonald H. John McDonald Kenneth M. R. McDonald Lois McDonald Drew McDougall ludith E. I. McErvel Ivan and Harriet McFarlane Bernie McGarva Patricia and Barry McGee John A. McGinnis Malcolm McGrath Adele D. McIntyre J.A. (Sandy) McIntyre Murray McIntyre Michael D. McKee Kevin McKenna C. Michael and Jeryn McKeown

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Valinda Morris

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1957

\* These organizations or individuals have also supported the university through donations in kind.

Peter Gzowski, an arts student, becomes editor-in-chief of The Varsity student newspaper. 1959

Work begins on The Dictionary of Canadian Biography. Editor Frances Halpenny receives the Molson Award for this monumental work in 1983.

1964

Marshall McLuhan publishes Understanding Media and becomes internationally known for his studies of mass media. 1965

Scarborough College, now the University of Toronto at Scarborough, is established.



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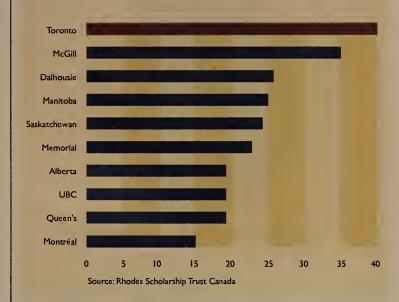
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Elizabeth M. Stewart

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Stuart Rothenberg

Linda Rothstein

† These organizations have also financially supported the research undertaken by the university.

#### 1967

Erindale College, now the University of Toronto at Mississauga, is established.



Puhl



Manos Vourkoutiotis

Tillie Shuster

1972

Robertson Davies, English professor and author of Fifth Business, becomes a companion of the Order of Canada.

Richard Tan



#### Major North American Research Libraries (Public and Private Universities)

Rank	University
1	. Harvard
2	Yale
3	California, Berkeley
. 4	Stanford
5	Toronto
6	Michigan
7	Illinois, Urbana
8	California, Los Angeles
9	Texas
10	Cornell

#### TOP 4 CANADIAN UNIVERSITIES (AFTER TORONTO)

28	Alberta	
36	UBC	
59	Montréal	
65	McGill	

Source: Association of Research Libraries Statistics (2000-2001) Note: Ranked according to holdings, acquisitions, staff and expenditures

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†These organizations have also financially supported the research undertaken by the university.



1974

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Pauline McGibbon, graduate and first female chancellor of U of T, becomes Ontario's first female lieutenantgovernor. 1975

Researchers at the Faculty of Forestry develop a method of treating trees suffering from Dutch Elm and other fungal diseases.

1978

The University of Toronto Press publishes the first volume of *The Correspondence* of *Emile Zola*.



1984

Tak Mak of the Faculty of Medicine helps identify the T-cell receptor gene, advancing our understanding of AIDS and its effects on the body's immune system.

Canada

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**64%** of

undergraduates

in first-entry

programs

were born

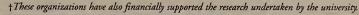
in Canada

were born

outside Canada

36%

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Leonard V. Diplock

Richard and Lois Dodds



1986

John Polanyi of the chemistry department is awarded a Nobel Prize for his work on reaction dynamics, a new field of research in chemistry. 1988

U of T surgeons Alan Hudson and Susan MacKinnon perform the world's first nerve transplant on a nine-year-old boy.

1989

Lap-Chee Tsui, Manuel Buchwald and Jack Riordan of the Faculty of Medicine isolate the gene that causes cystic fibrosis.



1992

Roberta Bondar, who received her PhD at U of T in neurobiology in 1974, becomes the first Canadian woman to fly in space.

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#### 1993

The final volume of Historical Atlas of Canada, a Canada-wide collaboration based at U of T, is published.



Merle Kriss

O. Allan Kupcis

Eugene Kurchak

1995

lames F. MacIntosh

Elizabeth J. Maciver

Rohinton Mistry, a 1982 arts graduate, wins the Giller Prize for A Fine Balance.

#### 1999

Theresa W. Mersky

Norman Jewison, a 1949 arts graduate, is awarded the Irving Thalberg Award from the Academy of Motion Picture Arts and Sciences.

Patrick F. O'Leary

Joseph H. O'Neill

Jacqueline C. Orange



Christine J. Prudham

Erwin A. Psotka

1999

Vaira Vike-Freiberga (BA 1958) becomes president of the Republic of Latvia, the first woman to be a head of state in post-communist Eastern Europe.

E. Ann Stevens

Marianne Pauline John D. Stevenson David Macdonald Ernst W. Stieb Allan J. Stitt Timothy E. Stock Patricia E Stone Roselyn E. Stone Charles Stonehill Richard S.A. Storrey John M. Stransman William H. Strong Mary Alice Stuart Victoria M. Stuart John G. Stulac Robert Sullivan Caroline A Suma Joseph F. Sweenes Paul W. and Helen P. Sweetman Richard and Julie Swenson Orest Michael Syrowy Sui S. Szetu Burton and Judith Tait Peter and Elina Tan James E, Tapsell Sydney Tattershall Sylvia Taube Nicholas Terpstra Wyndham Paul Thiessen Rajan Thomas Neil T. Thompson Pauline A. Thompson Barton A. Thomson lames Thomson Keith Titley lames C.Y.To Ioan Tobin Mary Smith Todd Cameron D. E. Tolton J. Lynn Tomkins Madelene G. Tomlinson Gordon F.Torrie Donald H. Townsend Elizabeth A Townsend Vivian Ilien Treacy Leon Tretiakewitsch Marc Trottier Guy Trudel Gabriel Tsampalieros Christina Ching Tsac Tak-Fu Tse K. Kelly Tsimidis Albert Tucker John A. Turley-Ewart John Tutecky W. R. Twiss Irene A. Uchida Sigmund and Robin Vaile Henry M. Van Driel Peter L.Van Loan

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Mukta Carol Bansai

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Erin O'Neill-Berg and

Melvin Berg

#### 2000

Margaret Atwood, a 1961 arts graduate, wins the Booker Prize for *The Blind Assassin*.

#### 2000

Researchers in the Faculty of Medicine discover a vaccine that may help prevent and treat the disabling memory loss and cognitive impairment of Alzheimer's disease.



#### 2002

Martin Friedland, University Professor Emeritus, publishes The University of Toronto: A History in honour of U of T's 175th anniversary.

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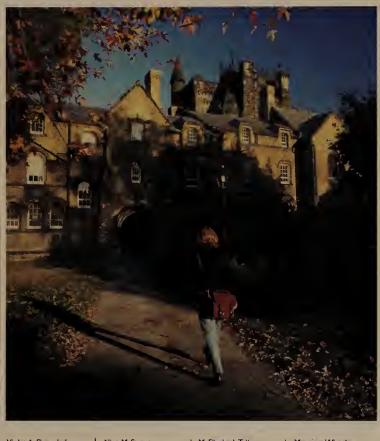
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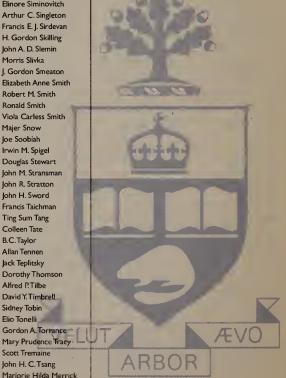
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# Economic Impact

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On the steps of University College (seated I-r) Faculty of Law staff Joe Kim and nursing professor Kelly Metcalfe (standing I-r) Students' Administrative Council President and arts student Rocco Kusi-Achampong, Faculty of Law student Signa Daumshanks, alumna Christine Henry (St. Michael's 1996), Faculty of Applied Science and Engineering staff Cora Larkins, alumna Mary Anne Chambers (UTSC 1998) and metallurgy and materials science professor Zheng-Hong Lu.

**Back Cover** 

Workers who built University College, circa 1857.

he University of Toronto is not only Canada's leading research university, it is also Canada's largest - with more than 55,000 full- and parttime students. In addition to its academic and research roles, U of T is a major employer and economic engine in the Greater Toronto Area

(GTA), province, country, and virtually every sector of society.

- The university's total gross expenditures in 2001-2002 were almost \$1.2 billion, including \$236 million for research.
- U of T generates \$1.16 for every dollar of funding from federal and provincial governments, through student fees, investment income, sales and services, contract

research, donations and other grants. In 2001-2002, government grants to U of T totalled \$587.1 million - 76.5 per cent from the province and 23.5 per cent from the federal government.

• With 10,141 employees, U of T is the 16th-largest employer in the GTA. That number includes teaching staff and assistants, librarians, administrative and technical staff, as well as workers in 19 different unions from police to service workers, to machinists, printers and pipefitters.

- Almost 76 per cent of first-year U of T students come from the GTA. The university also meets the needs of working professionals who want to update their skills. Each year, between 35,000 and 40,000 area residents enrol in continuing studies, non-degree programs and occasional courses.
- The extended university community of employees, students and alumni totals almost 265,000 people in the Toronto region. That community makes up approximately 7.5 per cent of the adult population of the Toronto region.
- In 2001-2002, U of T had a gross payroll of \$714.7 million. The direct return to the Toronto area is almost \$362 million - or up to \$580 million with the multiplier effect, where expenditures in one area result in further expenditures in other areas. • The 55,127 U of T students registered in 2000-2001 are estimated to have spent \$329 million during the nine months from September to May (or approximately \$6,000 per student), not counting direct payments to the university for tuition, books, student fees and residence charges. With the multiplier effect, the economic impact is as much as \$526 million.

• About 70 per cent of all U of T alumni are living in Metropolitan Toronto or central Ontario. Thus, about 8,000 of the people who graduate each year are likely to remain in or near Toronto. By having a university degree, one class of graduates has increased its lifetime earnings by approximately \$2 billion before taxes.

• U of T buys books, furniture, equipment, supplies, computer technology and a multitude of other services. In 2001-2002, these and other non-salary and benefit expenditures amounted to about \$553 million. By conservative estimates, 65 per cent of these expenditures are local, meaning that U of T adds

> about \$360 million to the local economy through direct purchases. With the multiplier effect, the total economic

> •The University of Toronto and the individuals associated with it (employees, students and alumni) put an estimated \$4.5 billion dollars into the econ-

omy of the Toronto region each year - inclusive of multiplier effect. That figure doesn't include several million dollars of expenditures by student organizations or money spent by employees who have retired from the university and continue to live in the Toronto region, or by visitors attracted to Toronto by the university (including conference attendees, parents of students, and individuals who attend university sporting and cultural events).

• As university enrolment surges across the country and especially in Ontario (with the elimination of grade 13 and the beginning of the double-cohort), U of T continues its phase of capital growth, representing an investment of more than \$500 million. Funding sources in addition to the university's operating budget and the private sector include the province's SuperBuild program and the Ontario Innovation Trust, as well as the federal government's Canada Foundation for Innovation. To meet increased enrolment levels, U of T is continuing discussions with the province on capital expansion needs. This year saw the beginning of several construction projects (including residences, research labs and teaching facilities), as well as the completion of the Bahen Centre for Information Technology.

#### With 10,141 employees, U of T is the 16th largest impact is as high as \$576 million. employer in the GTA



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It is through their generosity that the university is able to publish this report and distribute it nationally as an insert in *The Globe and Mail*. They join our alumni and friends across Canada and around the world, and our outstanding students, faculty and staff, in helping U of T build on its tradition of excellence in research and teaching, and to strengthen its role as a leader among universities in Canada and the world.

